

DATE 3 FEB 1964

Time at entrance to Pearl Harbor = 1045 W

Time at sunset = 1828 Position at sunset = 20°-44'N 159°-24.5'W

Miles traveled from entrance to Pearl Harbor to sunset = 86

Miles traveled from sunset to 2400 hours = 51

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	1858	CELESTIAL	159°-27.9'W	20°-43.1'N
2.				
3.				
4.				
5.				
6.				

DATE 4 FEB 1964

Time at sunrise = 0620 Position at sunrise = 19°-57.5'N 160°-57'W

Time at sunset = 1745 Position at sunset = 19°22'N 162°-24.2'W

Miles traveled from 0000 hours to sunrise = 58

Miles traveled from sunrise to sunset = 77

Miles traveled from sunset to 2400 hours = 54

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0540	CELESTIAL	161°-01'W	19°-56.5'N
2.	1200	LAN	161°-57.9'W	19°-34.5'N
3.	1810	CELESTIAL	162°-24'W	19°-22'N
4.				
5.				
6.				

DATE 5 Feb, 1964

Time at sunrise = 0627 Position at sunrise = $18^{\circ}46.8'N$ $164^{\circ}01.7'W$

Time at sunset = 1758 Position at sunset = $17^{\circ}58'N$ $165^{\circ}38.6'W$

Miles traveled from 0000 hours to sunrise = 53

Miles traveled from sunrise to sunset = 109

Miles traveled from sunset to 2400 hours = 57

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0550	CELESTIAL	$163^{\circ}54.5'W$	$18^{\circ}49.7'N$
2.	1208	LAN	$164^{\circ}47'W$	$18^{\circ}16.8'N$
3.	1830	CELESTIAL	$165^{\circ}48'W$	$17^{\circ}53'N$
4.				
5.				
6.				

DATE 6 Feb, 1964

Time at sunrise = 0640 Position at sunrise = $17^{\circ}27.4'N$ $167^{\circ}29.9'W$

Time at sunset = 1815 Position at sunset = $16^{\circ}52.9'N$ $168^{\circ}49.3'W$

Miles traveled from 0000 hours to sunrise = 55

Miles traveled from sunrise to sunset = 83

Miles traveled from sunset to 2400 hours = 47

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0610	CELESTIAL	$167^{\circ}24.9'W$	$17^{\circ}28.3'N$
2.	1227	LAN	$168^{\circ}15.5'W$	$17^{\circ}08.9'N$
3.	1835	CELESTIAL	$168^{\circ}52.2'W$	$16^{\circ}51.9'N$
4.				
5.				
6.				

(grain) Johnston Isl. 2300 = $7\frac{1}{2}$ miles

DATE 7 Feb, 1964

Time at sunrise = 0645 Position at sunrise = $15^{\circ}25.3'N$ $169^{\circ}01.5'W$

Time at sunset = 1815 Position at sunset = $14^{\circ}12.5'N$ $169^{\circ}23.0'W$

Miles traveled from 0000 hours to sunrise = 68

Miles traveled from sunrise to sunset = ~~89~~ 45

Miles traveled from sunset to 2400 hours = 52

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	1228	LAN	$168^{\circ}50.6'W$	$14^{\circ}52.5'N$
2.	1850	STARS	$169^{\circ}24.0'W$	$14^{\circ}13.8'N$
3.				
4.				
5.	1515 hours = 730000 ft		miles between sunrise & 1515 = 61	
			" " 1515 to sunset = $34\frac{1}{2}$	
6.				

DATE 8 Feb 1964

Time at sunrise = 0648 Position at sunrise = $12^{\circ}55.6'N$ $170^{\circ}31'W$

Time at sunset = 1830 Position at sunset = $12^{\circ}22.2'N$ $171^{\circ}45.2'W$

Miles traveled from 0000 hours to sunrise = 55

Miles traveled from sunrise to sunset = 106

Miles traveled from sunset to 2400 hours = 51

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0610	Stars	$170^{\circ}28.1'W$	$12^{\circ}58.7'N$
2.	1238	LAN	$171^{\circ}01.2'W$	$12^{\circ}22.2'N$
3.	1900	Stars	$171^{\circ}50'W$	$12^{\circ}27'N$
4.				
5.				
6.				

DATE 9 Feb., 1964

Time at sunrise = 0649 Position at sunrise = $13^{\circ}38'2''N$ $170^{\circ}57'8''W$

Time at sunset = 1825 Position at sunset = $14^{\circ}36'2''N$ $170^{\circ}14''W$

Miles traveled from 0000 hours to sunrise = 54

Miles traveled from sunrise to sunset = 73

Miles traveled from sunset to 2400 hours = 34

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0605	LORAN	$171^{\circ}06'W$	$13^{\circ}36'N$
2.	1231	LAN	$170^{\circ}34'W$	$14^{\circ}04'N$
3.	1850	STARS	$170^{\circ}11'4''W$	$14^{\circ}39'5''N$
4.				
5.				
6.				

DATE 10 Feb., 1964

Time at sunrise = 0645 Position at sunrise = $15^{\circ}27'8''N$ $169^{\circ}42'9''W$

Time at sunset = 1827 Position at sunset = $14^{\circ}29'$ $171^{\circ}12'1''W$

Miles traveled from 0000 hours to sunrise = 52

Miles traveled from sunrise to sunset = 122

Miles traveled from sunset to 2400 hours = 68

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0615	STARS	$169^{\circ}41'W$	$15^{\circ}25'5''N$
2.	1233	LAN	$170^{\circ}24'8''W$	$15^{\circ}14'8''N$
3.	1900	STARS	$171^{\circ}21'2''W$	$14^{\circ}20'8''N$
4.				
5.				
6.				

DATE 11 Feb., 1964

Time at sunrise = 0657 Position at sunrise = $13^{\circ}44.5'N$ $173^{\circ}04'W$
Time at sunset = 1828 Position at sunset = $14^{\circ}57.2'N$ $172^{\circ}09.8'W$
Miles traveled from 0000 hours to sunrise = 85
Miles traveled from sunrise to sunset = 98
Miles traveled from sunset to 2400 hours = 48

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0625	STARS	$172^{\circ}58'W$	$13^{\circ}39.9'N$
2.	1237	LAN	$172^{\circ}37.9'W$	$14^{\circ}21.6'N$
3.	1900	STARS	$172^{\circ}06.5'W$	$15^{\circ}00.5'N$
4.				
5.				
6.				

DATE 12 Feb., 1964

Time at sunrise = 0649 Position at sunrise = $16^{\circ}30.3'N$ $170^{\circ}23'W$
Time at sunset = 1820 Position at sunset = $16^{\circ}35.3'N$ $169^{\circ}42'W$
Miles traveled from 0000 hours to sunrise = 79
Miles traveled from sunrise to sunset = 75
Miles traveled from sunset to 2400 hours = 31

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0615	STARS	$170^{\circ}28'W$	$16^{\circ}24.2'N$
* 2.	1214	VISUAL	$169^{\circ}31'-45''W$	$16^{\circ}44'-17''N$
3.	1850	STARS	$169^{\circ}46'W$	$16^{\circ}35.8'N$
4.				
5.				
6.				

left grid 0615

* JOHNSTON ISLAND BERTH

SI-MNH-958b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

(THIS SHEET Compiled from Position
Plotting Sheet of Ship By J.D.W.
At S.I.)

AT SEA DAILY LOG -- B

DATE 13 FEBRUARY 1964

Time at sunrise ⁰⁶⁵⁵ = Position at sunrise = $16^{\circ}15'N$ τ $170^{\circ}38'W$

Time at sunset ¹⁸⁴⁵ = Position at sunset = $15^{\circ}37'N$ τ $172^{\circ}27'W$

Miles traveled from 0000 hours to sunrise =

Miles traveled from sunrise to sunset = ~~754~~ 963

Miles traveled from sunset to 2400 hours =

TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
-------------	-------------	-----------	----------

1.

2.

3.

4.

5.

6.

DATE 14 FEBRUARY 1964

Time at sunrise ⁰⁷⁰⁰ = Position at sunrise = $14^{\circ}57'N$ τ $174^{\circ}10'W$

Time at sunset ¹⁸⁴⁰ = Position at sunset = $16^{\circ}05'N$ τ $173^{\circ}15'W$

Miles traveled from 0000 hours to sunrise =

Miles traveled from sunrise to sunset = 99 mi

Miles traveled from sunset to 2400 hours =

TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
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1.

2.

3.

4.

5.

6.

SI-MNH-958b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS

(THIS SHEET compiled from Position
Plotting Sheet of Ship By J.D.W.
At SI.)

AT SEA DAILY LOG -- B

DATE 15 FEBRUARY 1964

Time at sunrise ⁰⁶³⁵ = Position at sunrise = $16^{\circ}54'N + 172^{\circ}04'W$
Time at sunset ¹⁸²⁸ = Position at sunset = $16^{\circ}54'N + 170^{\circ}54'W$

Miles traveled from 0000 hours to sunrise =

Miles traveled from sunrise to sunset = 69

Miles traveled from sunset to 2400 hours =

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.				
2.				
3.				
4.				
5.				
6.				

DATE 16 FEBRUARY 1964

Time at sunrise = Position at sunrise =

Time at sunset = Position at sunset =

Miles traveled from 0000 hours to sunrise =

Miles traveled from sunrise to sunset =

Miles traveled from sunset to 2400 hours =

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.				
2.				
3.				
4.				
5.				
6.				

DATE 17 Feb 1964

Time at sunrise = 0628 Position at sunrise = $18^{\circ}58.5'N$ $164^{\circ}58'W$ ✓

Time at sunset = 1751 Position at sunset = $19^{\circ}36.5'N$ $163^{\circ}18.8'W$ ✓

Miles traveled from 0000 hours to sunrise = 66

Miles traveled from sunrise to sunset = 102

Miles traveled from sunset to 2400 hours = 43

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0650	STARS	$165^{\circ}04'W$	$18^{\circ}57.9'N$ ✓
2.	1815	STARS	$163^{\circ}14.6'W$	$19^{\circ}37.8'N$ ✓
3.				
4.				
5.				
6.				

DATE 18 Feb, 1964

Time at sunrise = 0711 Position at sunrise = $20^{\circ}21.8'N$ $160^{\circ}49.1'W$ ✓

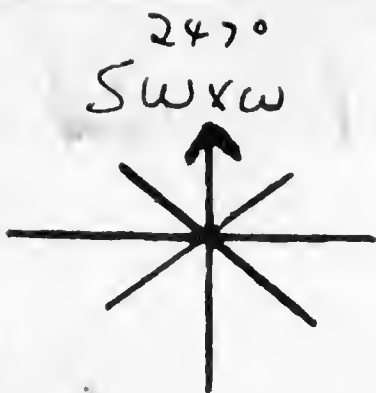
Time at sunset = 1817 Position at sunset = $20^{\circ}52.2'N$ $159^{\circ}17'W$ ✓

Miles traveled from 0000 hours to sunrise = 44

Miles traveled from sunrise to sunset = 77

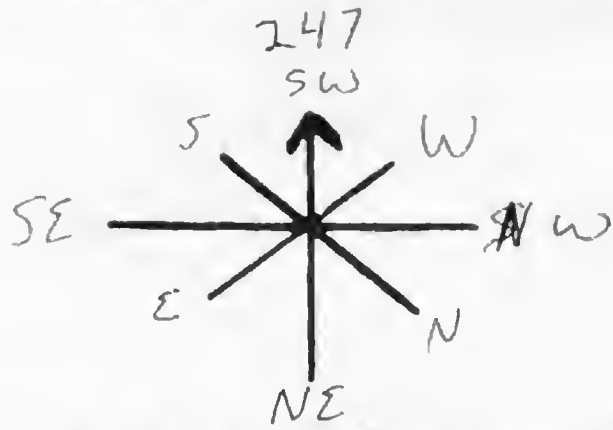
Miles traveled from sunset to 2400 hours = 33

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0800	DR	$160^{\circ}54'W$	$20^{\circ}28.8'N$ ✓
2.	1150	RADAR	$160^{\circ}03'W$	$20^{\circ}40.3'N$ ✓
3.	1935	RADAR	$159^{\circ}10.5'$	$20^{\circ}54.2'N$ ✓
4.				
5.				
6.				



DATE 3 February
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0942	Shorebirds	100	-		low over water. Crossed Pearl Harbor Channel running to sand spit. One large flock. Birds flew like Sanderling & Turnstones. 1/2 mile out.	Channel, Pearl Harbour
0957	Cleared Harbor					
0957	Shorebirds	7	-	sitting	Sitting on sand spit at Harbor entrance.	
1000	Brown Booby	1	sitting	on	Bouy # 3	
1001	Frigate	1	Flying	in towards	Oahu about 300' up, 1/2 mile away flapping	
1012	Brown Booby	1	SW	10-20'	Feeding? Flying low over the water, 1/2 mi. out.	
1047	Pomarine Jaeger	1	NW	60'	Flew across fantail. <u>Dock Phase</u> .	
1110	Black-footed Albatross	1	-	20'	Following ship	
1120	Booby sp?	2	NW	low	1000 yds to starboard	
1115	Black-footed albatross	2	-	low	following ship	
1123	Brown Booby	1	NW	10'	Flew across fantail	
1125	Pomarine Jaeger	1	NE	50'	Flew in looked at ship.	
1127	Pomarine Jaeger	1	SE	50'	" " " " "	
1130					3 Black-footed albatross following ship.	
1134	Pomarine Jaeger	1	SE	10-15'	low over water hunting	
1146	Pomarine Jaeger	1	SE	50-60'	across bow	
1204	Pomarine Jaeger	1	SE	low	lit in water stern	
1205	Black-foot albatross	4	-	-	Following ship, lit in water together at 1210	
1235	Black-foot A.	2	-		following ship	
1237	Pomarine Jaeger	2	NW		circled behind ship, settled in water	
1239	Pomarine J.	1	-		circled behind ship	
1239	Black-foot A.	1	-		joined 2 behind ship - one of 3 sat in water with Jaeger	
1242	Pomarine J.	1	S	50 ft	off starboard port bow 500 yds	
1244	Pomarine J.	2	S		crossed bow 100 yds	
1254	Pomarine J.	4	-	25 to 50 ft	circling ship - 2 dark + 2 light	
1257	Black-foot A	3			joined others 3	
1306	Tern sp	3	NE		Following school of fish	
1309	Sooty Tern	6	NE		feeding flock - small school of fish under them - occasional	
1317	Pomarine Jaeger	1	SW		due to surface of water	
1317	Black-foot albatross				5 black-foot albatross following ship 1315 hrs.	
1323	Pomarine Jaeger	1	SW		passed in	
1325	Pomarine Jaeger	1	SW		8 black foot albatross now	
					200 to stern	
					directly over ship	

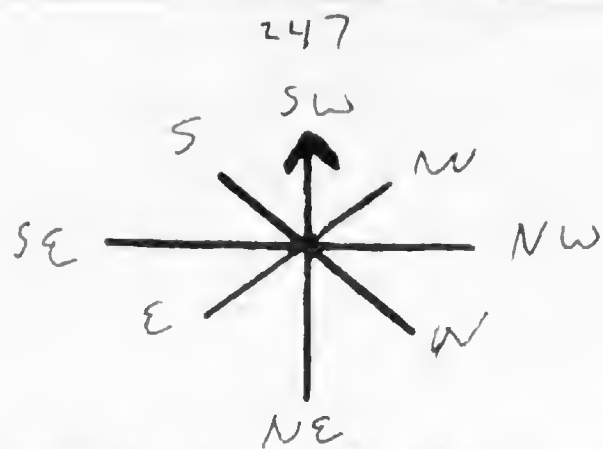


DATE 3 February
Pg. # 2

time species # dir. hgt. remarks loc.

1337	Pomarine Jaeger	1	S	50ft	500 to port	
1345					dumped garbage - all albatross + jaegers departed stern of ship.	
1415	Black-foot A	3			following > long once more	
1419	Black-foot A	2			joined above 3 to make 5 in all behind ship	
1421	Black-foot A	1			coming up astern to join others 5	
1500	Pomarine J.	1	SW		came up from astern + sat in water behind ship	
1510	Pomarine J.	1	SW	30'	Flew by ship, curious. Light Phase	
1517	Pomarine J.	1	SW	30'	" " " " " " Dark Phase.	
1527	" "	1	SW	20'	Light phase different from bird of 1510.	
1543	Pomarine J.	2	SW	20'	One Light Phase, 1 Dark Phase.	
1600					caught + banded on of the Black-footed Jaegers	
1609	Gray-backed Tern	1	SW	15'	Albatross following ship. #757-60836	
1609	Pomarine J.	1	SW	20'	NOT Feeding	
1610					4 Black-footed albatross following ship	
1611	Dark-rumped Petrel	2	NE	20'	1000 yds away. circled over sitting	
1618	Sooty Tern	2	NE	20'	albatross.	
1630	Sooty Storm Petrel?	1	SW	20'	NOT feeding	
1653	Sooty Tern	2	NW	60'		
1653					4 B.F. Albatross following ship	
1657	Frigate	1	SW	300'	Soaring	
1703	Sooty Tern	1	NW	30'		
1728	Sooty TERN	3	NE	60'	Not Feeding	
1754	Pomarine Jaeger	2		on H2O	two light phase birds	
1800					5 B.F. Albatross following ship.	
1811	Sooty Terns	7	E	5-40'	one made a pass at the water but no feeding observed.	
1820	Red-footed Booby	1		40'	sub adult perched around ship	
1827	" "	1		30'	" " different from one at 1820	
1839	Frigatebird	2		500'		

observation ended 1845

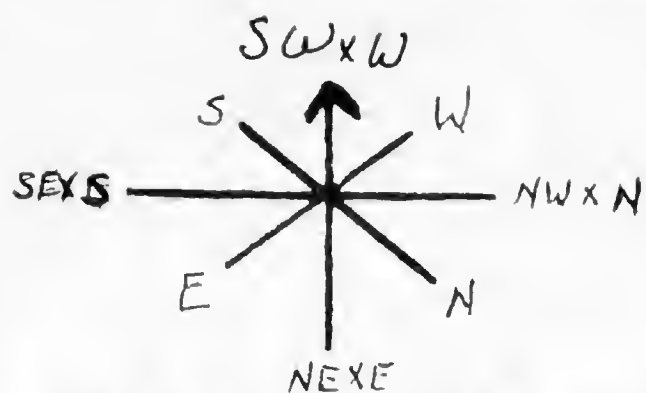


DATE 4 Feb 64
Pg. # 1

time species # dir. hgt. remarks observation began 0505 loc.

0505	Red-foot B.	1			left roosting place on rail of ship - probably same birds as banded previous evening
0621	Fairy Tern	1	NE	low	400 yds off port
0630	petrel-shearwater	1	S	low	dark on top light below
0641	Sooty tern	1	SE	5-10	500 yds off bow
0725	Sooty tern	1	NNE	5-15	800 yds off starboard
0750	Sooty tern?	1	SE	5-15	800 yds off bow white bellied type tern
0759	Red-footed Booby	1	NW	5-20	Adult hunting 500 yds
0817	Sooty? tern	1	S	10-20	at limit of vision 1000 yds or more
0819	Fairy tern	1	NW	25ft	1000 off bow
0822	Sooty? Tern	12	SE	5 to 25	1000 off bow
0825	Sooty Tern	1	W	5 to 10	150 yds
0825	Sooty tern	1	S	10-20	75 yds
0825	Sooty tern	2	NW	20-50	500 yds
0836	Sooty? Tern	2	SE	10-20	800 yds off bow
0854	Sooty Tern	1	S	20-30'	200 yds crossed bow
0904	FAIRY TERN	1	NE	40-50'	200 yds OFF STERN
0907	SOOTY TERN	1	SW	LOW	CIRCLING + Feeding - VERY DISTANT OFF STARBOARD
0907	FAIRY TERN	1	SW	LOW	
0915	SOOTY TERN	1	SE	30'	
0917	SOOTY TERN	11	SE	10-30'	NOT feeding moving rapidly SE.
0922	(Sooty Tern)	2	NW	30'	- moving rapidly N.W.
1010	(Fairy Tern)	1	SW	30'	- Flew in from fantail to inspect ship.
1016	Sooty Tern	2	NW	20'	- NOT feeding, flying fast.
1048	STORM Petrel spp?	1			- Dark
1052	SOOTY TERN	9	MAINLY NE	80'	- Circling - feeding and diving - OCCASIONAL Hover
1100	SOOTY TERN	3±	15 NEXE	10-30'	- Large flock - (Headed TOWARD STORM IN NEXE)
1106	FAIRY TERN	2	NEXE		- Following larger flock of Sooty Tern
1107	Sooty "	1	NEXE		- " " " " " "
1108	Sooty "	1	NEXE		- " " " " " "
1235	Sooty Tern	11			actively feeding (no fish seen)
1452	Sooty? Tern	3	SE	10-100	(Film # 1167 frame)
1503	Black-ft Albatross	1	NE		Circling + moving SE 1000 yds off bow Feeding
1515	Sooty Tern?	7	NE	10-100	Landed on water off stern (Collected - 1600 hrs.)
1516	Sooty TERN	1	NE	Low	1500 yds + Circling - 300 yd
1537	Harcourts Storm Petrel	1	SW	0-10'	Flew by ship.
1554	Sooty Tern	1	NE	80-100'	1200 yds off starboard - Circling
1608	Sooty TERN	1	NE	30'	100 yd off portside
1718					LOST STEERING
1727					Regained steering back on course
1744					Sunset
1750					Secured observations

1167



DATE Feb. 5, 1964
Pg. # 1

Observation began 0615

time	species	#	dir.	hgt.	remarks	loc.
0631					Sunrise	
0300 0315	Red-footed Booby				imm. came aboard ^{roosting on} uppermost mast.	
0655	Laysan Albatross	1	SW	0-40'	rain storms	
0910	Harcourt Storm Petrel	2	S	1-5	traveling quite close. ignore big flying fish	
0959	Harcourt Storm Petrel	1	sw	on water	flew after being shot at.	
1021	Red footed Booby	1	S	50-75	after being wounded glided off	
1221	Frigatebird	1	NEXE	100'	A ♂ - Fishing	
1223	Sooty Tern?	2	⊙	200'	Very DISTANT - STARBOARD	
1320	Frigatebird	1	⊙	150'	circling and feeding	
1321	Mashed Booby?	1	-	0-50'	feeding - diving	
1326	Red-ft. Booby	1	NWxN	10'	Very close off starboard. (Imm.)	
1332	Red-ft. Booby	2	NEXE	30'	Above 3 entries seen together of starboard - circling	
1358	FRIGATEBIRD?	1	SWxW	150±'	Flew over SHIP.	
1415	Red-ft Booby Imm				Circling & DIVING - VERY DISTANT OF BOW	
1430	Red-ft Booby Imm				roosting on mast departed - circled port to starboard was hit by shot but not stopped	
1510	Storm Petrel sp.	1	NE		50 yds astern	
1626	Common Noddy	1	SW	1-25	400 to starboard port might have been imm. sooty - too far to see white forehead	
1640	Red-footed Booby	1	S	25-50	buzzed ship twice - immature	
1658	Brown Booby	1	SW	20-50	buzzed ship once - mature - soared off in our direction	
1801					300 yds. out after passing just aft.	
1815	Red-ft. Booby	1	SW	5-10'	SUNSET Imm., gliding off bow	

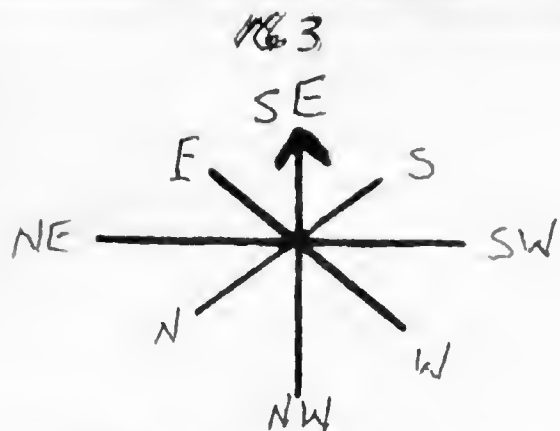
observation ceased = 1811



DATE 6 Feb 64
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0630	Commence observations					
0643	Sunrise					
0915	Red-foot Booby	1		10-20'	Imm. circled ship twice wounded	
1025	Masked Booby	2		5-20'	wounded	
1025	Masked Booby	2		5-20'	wounded	
1029	Flock Terns	40±	SW	50-100'	1 collected	
* 1036	shark				over 1000 yds of starboard bow surfaced briefly heterocercal tail - maybe large shark 25'-30' long	
1046	Masked Booby	1	N	fm water	may have been one wounded at 1025?	
1223	R.T. Tropicbird	1	O	200'	Circled Ship	
1328	Red-ft Booby	1	NW	10-40'	approached from stern & departed starboard after being shot at.	
1426	Red-ft Booby	2*	NE	10'	* one probable, one definite - Together.	
1550	Flock				- large spread out flock actually feeding - no flying fish observed	
	Sooty Tern	100±			only ca 10 Imm. the rest adults	
	Red-footed Booby	50±			adult	
	Masked Booby	1				
1620	back on course					
1812					sunset	
1812	Secured operations					

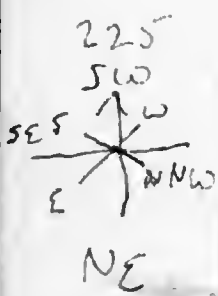
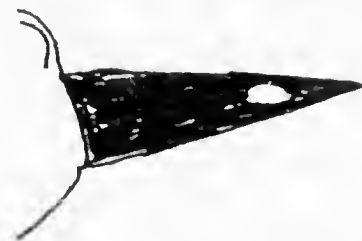




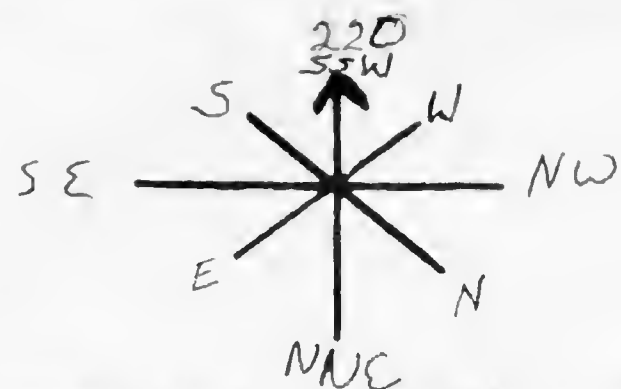
DATE 7 FEB 64
Pg. # 1

time species # dir. hgt. remarks loc.

0606					Commence observations	
0643	Dark-rump Petrel	1	S	0-20'	Interested in ship from a distance	
0648	Sunrise				Dark back - Head looks like it had side-burns	
0658	Pterodroma	1	N	0-20'	Dark Tail, white venter.	
0700	sp.				maybe some bird 1000 yds.	
0708	Red-ft Booby	1	S	40'	Ship stopped	
	Sooty Tern	7	S	100'	dipping into water feeding	} no flying fish observed under ship
	Red-tail Tropicbird	1	S	300'	" " " feeding	
					Not feeding - no retices	
0821	Red-tail Tropicbird	2	SE	200'	No retices, Not feeding	
0832	Red-t. Tropicbird	1	ENE	250'	Had growing retices, called when shot at.	
0844	Red-t. Tropicbird	1	ENE	0-150'	Dove twice, no break in dive, No retices, dove again & broke (perhaps from wind or for realignment on food).	
0925	tropic bird	1			0910 underway from Plankton stop	
1040	Red-footed Booby	1	S		1000 yds out to starboard	
1130	terns	5			imm. circled ship close once	
1144	Red-footed Booby	1			feeding flock circling 1000 yds off starbd. bow	
1346	White-necked P	1	SE		adult following ship 200 yds or so	
1448	change of course to			225	astern of ship - following at distance of 200 yds	
1452	Red-footed Booby	1	NE		white neck seen	
1528	Red-tail tropicbird	1		75	immature astern of ship 300 yds	
1558	Red-footed Booby	2			collected	
1712	Kermadec Petrel	1	NNE	5-10	1 immature	
					crossed bow & slipped back. Dark under wings	
					white near tip perfectly white belly form	
1751	Red-footed Booby	1				
1752	Kermadec Petrel	1			adult following ship	
1800	Red-foot Booby	2	0-30'		200 yards & better off port bow white belly phase	
1809	Red-foot	1	30'	NE	1 immature, 1 Adult.	
1811	Red-foot	1	20'	SW	immature	
1822	Sunset				"	
1825	-Secured				observations	
1835	Red-footed Booby	2				
1841	Pterodroma	1				



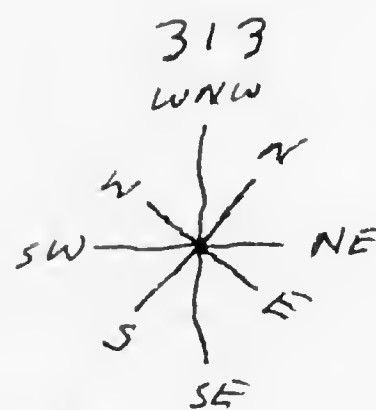
Maybe Same Bird



DATE 8 February 1964
Pg. # 1

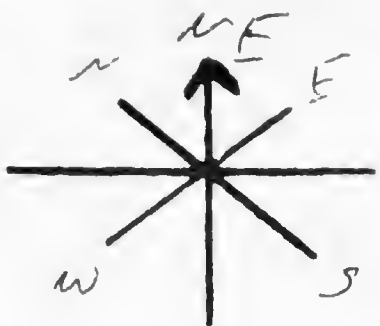
time species # dir. hgt. remarks loc.

0640					Begin observations.	
0647					Sunrise	
0710					Ship stopped for H ₂ O sample	
0805					resume course	
0928	red-tailed tropicb	1	SE	50-75	passed over without pausing just ahead of rain squall dove + sat on water?	
0932	---	---	---	---	Fairly heavy rain starts, ceased 0947	
1303					heavy Rain Squall hit;	
1323	BIRD	-	-	-	Seen by one of crew - off FANTAIL	
1324	Red-t. Tropicbird	1	SE	100 ft.	at 100 ft. 100 ft.	
1519	Harcourt's S.P.	1	N		Yericks present, crossed fantail from Starboard 150 yds off stern	
1547	---	---	---	---	change course to	



observed second 1830

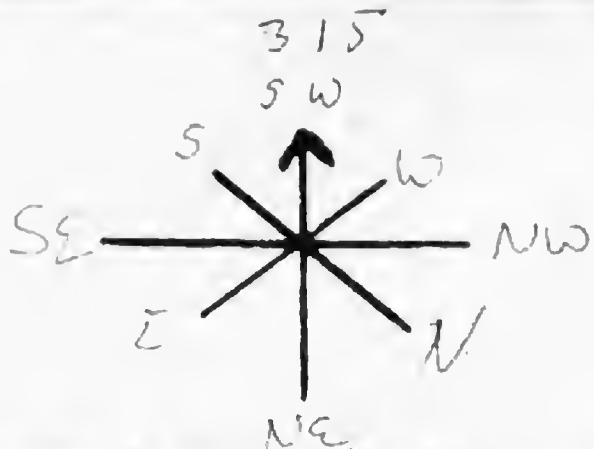
0648-0748
0748-0848
0848-0948



DATE 9 February 1964
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0630					began observations	
0700 0710	Red-footed Booby	1	NE	5-30 ft	Imm. 1 staying mostly very low over the water	
0715					stopped for plankton samples	
1153	Red-footed Booby	1		50'	Imm. ♂ bridge	
1315	Pterodroma / Shearwater	1		10-20'	Brownish above, light below - seen only for instant before disappearing in sun reflection	
1452	Pterodroma	1	SW		200 to port	
1613	STORM PETREL	1	E	0-10'		
1820	Shearwater / Petrel	1	W	5-20'	Brownish back, light underparts, crooked wing	
1825						
1830					SUNSET Knock off	

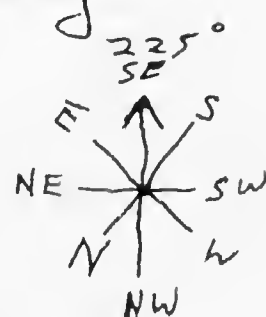
06-10-0749



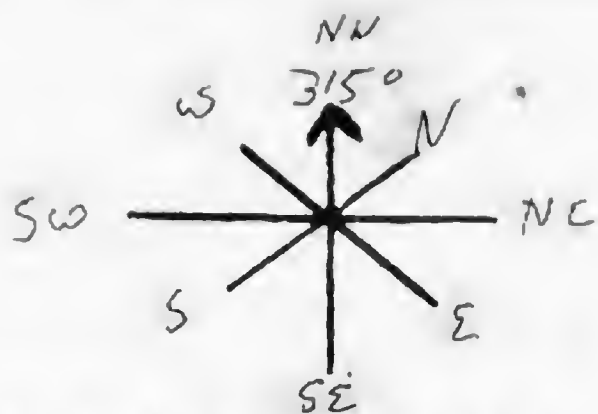
DATE 10 FEBRUARY 64
Pg. # 1

time species # dir. hgt. remarks loc.

0645					Begin Observations, Sunrise	
0716	Red-footed Booby	1	NE	20-50	circled bridge once, ship once, got shot at, glided off ship is "dead" in water for plankton samples	
0807					Ship underway	
0845	Red-foot Booby	1	W	20-50	Adult	
0914	-----	-----	-----	-----	change course	
1245	Red-footed B.	1	⊙	40ft	imm. shot by King	
1410	" " "	1			Imm. off fan tail	
1445	Red-footed Booby	1	NE	200ft.	Adult	
1444	Red-tail Tropicbird	1		150-200 yds	passed directly over ship - kept going off fan tail Adult.	
1630	Red-footed Booby	1	⊙	20-30'	Imm - flying fish present about ship departed to E.	
1715	Masked Booby	1	⊙		SA - following Ship - approached from SE 300 yards salt & pepper on back - head & neck white	
1734	RTT B	1	⊙	100ft	Passed over ship several times - fired upon but at extreme limit of range	
1737	Masked Booby	1			most likely same bird as 1715 - sub-adult	
					Observations secured 1835	



01245-0245
0245-0345
0345-0445



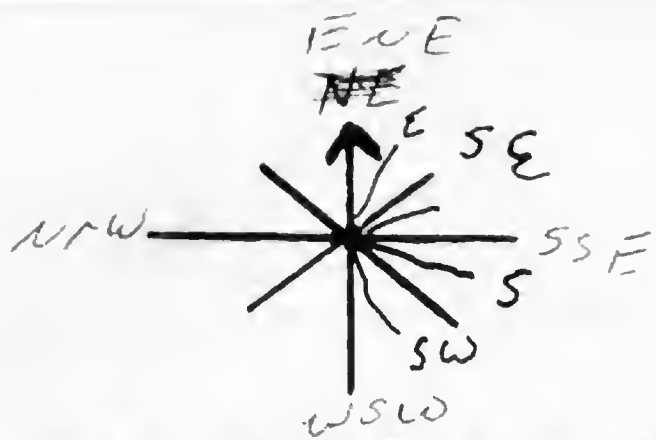
DATE 11 February
Pg. # 1

time species # dir. hgt. remarks loc.

0605	---	---	---	---	begin watch in dark	
0700	sunrise					
0702	Masked Booby	1	NW	5-30ft	Full adult plumage followed 400 behind ship	
0715	---	---	---	---	same bird passed us to port going NW, X bow 1000 yds 0720	
0721	White-necked P.	1	SE	---	300 to starboard, crossed to port, headed NW	
0730	---	---	---	---	dead on water for plankton sample	
0733	---	---	---	---	collect subadult masked booby, probably same	
0744	Masked Booby	1	---	10-50'	immature - watched him dive, spiralling ^{almost} straight down from 40' or so without check. Remain on water some time.	
0754	Red-footed Booby	1	---	10-60'	immature flying with above masked for some minutes near ship	
0805	Booby	1	---	---	farther out beyond above two (all part old or new flock?)	
0806	White-necked petrel	1	---	to 20'	new bird	
0816	Pterodroma	1	SE	To 20'		
0915	Sooty Storm Petrel	1	E	To 10'	All black - NO white Rump PATCH. Flew within 50 yds. STARBOARD Side	
0946	Pterodroma	2	NNW	10-15'	Dark brown above, square tail, dark breast band with lighter area ahead.	
1035	"	1	SE	To 20'	brown above, light below	
1206	White-necked P.	1	E	---	400 to starboard across bow	
1249	Red footed B.	1	SE	25ft	200 off bow then down port side	
1250	Pterodroma	1	SW	---	400 to port	
1315	Red-foot Booby	1	⊙	30ft	flew over ship	
1320	Harcourts SP	1	SW	---	200 across bow	
1840	---	---	---	---	second watch	

0657 - 0757
0757 - 0857
0857 - 0957

1



DATE 12 February
Pg. # 1

time species # dir. hgt. remarks loc.

0620

Begin Observations

0650

SUNRISE

0726

Phoenix
Puffin

1

NNW

dark brown chest, brown wings, dark
underwing linings (with lightish areas
along mid line - typical Pterodroma sp. g.
no white patches in wings.

0826

Wedgetail

1

SSW

across bow at 300 yds - typical wedgetail
ventral surfaces - dorsally brown but not seen
close or long enough to see pattern on back of wings

0829

Sooty Tern?

1

ENE

low

looked browner than Sooties I have seen - also, head
had more white. Possibly Sterna anathetus
300 to port

0941

Red-foot

1

ENE

low

Immature

0945

FRIGATE
BOOBY

1

SWNW

0-100'

Imm? ♀

1

"

0-10'

FRigate chasing bird - maybe SAME as
0941 BOOBY.

0949

WEDGETAIL

1

SEXE

10'

~~SE~~

0959

SOOTY TERN

4

SEXE

0-30'

NOT Feeding.

1141

(1) "

12

ENE

toward
Johnston

can see large flocks ~~sooty terns (primarily)~~ but
can identify frigate birds at this distance measured
at 3 miles looked like sootys till entrance buoy at noon

Easily visible at 1 1/2 mi.

1205

Red-t. tropic

3

over Johnston identifiable at 1 1/2 mi.

1530

—

—

—

reef fish seen around rocks

1556

—

—

—

Meet with A. Binion, Amerson, Bratley, + Ammerman
catch + preserve yellowtailed reef fish with hand net
pulling out of Johnston Harbor dock area
several tropics, few sooty tern with frigates over sand
sootys are evident now as sootys

1607

—

—

—

seem to be streaming in from SW (182°) to form large
circling flock 100-300' (some to 500') some frigate above antenna 625'

1608

—

—

—

turns not id as to species at this point still
some white flashing tho

1610

—

—

—

single birds lost fm. sight

1611

—

—

—

most everything lost ~~except~~ less numerous by half

1612 1/2

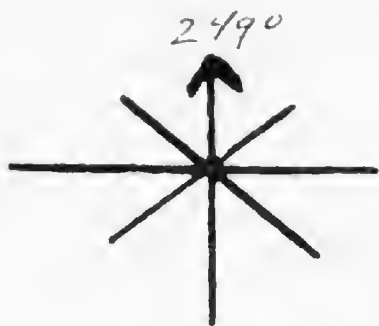
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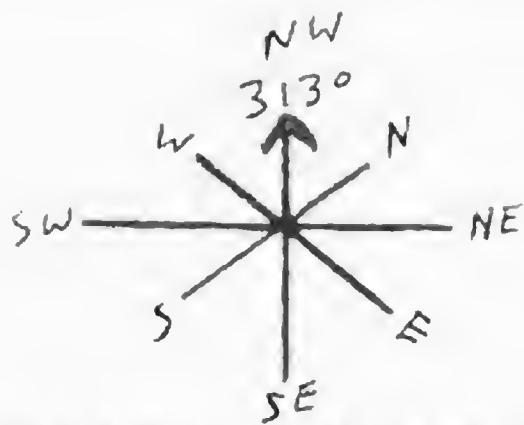
turns over sand lost
frigates barely visible yet

2/17 to 9/17 tower
turn to 13/17



DATE 12 Feb. '68
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
1613	Red foots	607			red on bouy	
1614	—	—	—	—	can't tell they are frigates over sand	
1615	—	—	—	—	flashes of white occasionally that may be tern ^{not be}	
1620	—	—	—	—	optimum lighting conditions, calm seas	
1621	Brown Booby	2	S	10-20	still visible, but near limit birds over sand	
1625	Frigate	—	—	—	barely visible knowing where they are wouldn't be noticed otherwise	
1625	Sooty terns	—	—	—	individuals coming in continually low over water.	
1627	Frigates	—	—	—	barely discernable over sand	
1629	Sooty terns	2	—	—	off starboard	
1629	—	—	—	—	—	
1632	—	—	—	—	flying fish noted	
1632	Sooty tern	2	toward sand	—	flocks over sand essentially lost (immagination excepted)	
1633	—	—	—	—	—	
1634	sooty tern	607	—	—	immagination ceases	
1636	black-footed albatross	1	—	—	skimming water off port	
1645	sooty tern	—	—	—	following ship came in from island side	
1700	red-footed booby	1	toward sand	10-20	several "playing around"	
1705	—	—	—	—	adult-looking	
1720	—	—	—	—	chasing albatross	
1723	Sooty Tern	3	Sooty Tern	—	off stern Towards sand.	
1725	Red-foot Booby	1	E	—	250 to port both immature	
1725	Red-foot Booby	1	E	—	—	
1726	Sooty Tern	114	—	—	→ Low over water headed towards sand.	
1731	Sooty Tern	4	—	—	single file. Counted 11, probably more.	
1732	sooty	1	—	—	→ Towards sand.	
1735	sooty	17	—	—	→ " "	
1737	sooty	39+	—	—	→ " "	
1739	sooty	3	—	—	→ " "	
1739 1/2	sooty	4	—	—	→ " "	
1741	sooty	31	—	—	→ " "	
1742	Red-ft Booby	2	—	—	→ " " are collected	
1742	Black-ft albat	2	—	—	collected - same bird of 1636	
1746	Sooty T.	12	—	—	→ Towards Johnston	
1747	sooty Tern	2	—	—	starboard	
1750	Red-footed Booby	2	—	—	—	
1750	Sooty terns	6+	—	—	—	
1755	—	50+	—	—	the following birds are straggling along	
↓	—	25+	—	—	the horizon all flying towards Johnston Island	
1810	Frigate bird	1	O	150'	mostly flying low towards Johnston a few higher	
1810	Sooty tern	19	S	5-10'	—	
		3	—	—	—	
		2	—	—	—	
1815	red-footed booby	2	100'	NE	toward Johnston	
1820	sun set	25	—	—	1 imm. 1 ad.	
1825	cease obs.	—	—	—	toward Johnston	
					at 2045 Sooty Tern can be heard + have been heard steadily since after sunset	



DATE 13 FEBRUARY 1964
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0555	---	---	---	---	Commence watch. Dark, not rough, moving slowly.	
0617	---	---	---	---	"Echo II" passing on starboard. Half-light now.	
0703	albatross Laysan	1	ESE	to 15'	Bridge watch says birds crying all around bridge at 0330. 0400 albatross sized and flight body white underneath wing most dark tail black tipped maybe feet protruding No good dorsal view stop for samples	VENTRAL Not solid color dorsally but I can't remember pattern K.H.
0715	---	---	---	---		
0756	same bird	---	---	---		
					 ALL DARK white dark band DORSAL	
0824	Red foot B	2	NE	Low	1 imm., 1 subadult 400 off bow	
0924	MASKED B.	1	NE	30'	Ad.	
0925	White-fl. Tropicbird	1	SE	60'		
0925	Pterodroma	1	NE	Low		
0932	Pterodroma society tern	1	SW	Low	800 to starboard	
1037	Harcourt's St. Petrel	1	NNW	low	moved away in front of us within sight for whole minute	
1106	---	---	---	---	turn S	
1136	Red-footed Booby	1	SW	20'	Shot.	
1651	Phaethon Herald's Petrel	1	NE	low	 brown brown white silvery ventral view 100yd OF STARBOARD 1 1/2 ft dorsal fin SUNSET	dorsal view all brown typical Pterodroma flight + shape. size of a white-neck
1802	SHARK	1	NW	0		
1828	---	---	---	---		
1845	observations concluded					



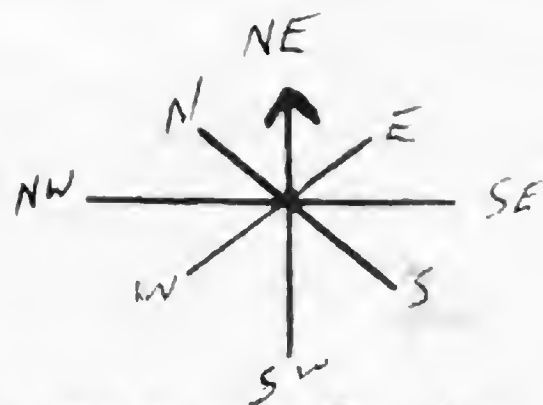
DATE Feb. 14, 1964
Pg. # 1

time species ^{SW} # dir. hgt. remarks loc.

0640					Begin Observations	
0700					Sunrise	
1147	Harcourt's Storm Petrel	1	W	10w	quite close to ship, fluttering like big butterfly	
1415						
1415	Red-footed Booby	1	SW	10ft.	Imm.	
1455	Black-footed Albatross	1	SE	low	followed ship	
1648	Laysan Albatross	1	(SW)	20'	Circled + followed ship for 9 minutes at 400-800 yds. Excellent view from bridge! Moved off to SW.	
1653	Frigate	1	NE	500'	1-2 miles behind ship, very high. Soaring. appeared to be moving NE.	
17						
1747	Red-foot	1	SE	50'		
1836					Sunset.	
1840					Secured Observations	

9700

1250



DATE 15 FEBRUARY 1964
Pg. # 1

time species # dir. hgt. remarks loc.

0635 - - - - - commence observations from bridge - fair light

0745 Black-foot albatross 1 O 5-15 light-colored bird while we are stopped for samples rough seas

0750 ~~Masked~~ Booby 1 O 20-30' shot at - imm.

0915 Black-footed albatross 1 same as before? YES

0816 Red-footed Booby 1 E Imm.

Direction change

0919 Pterodroma 1 S Low large - dark above - BROWN - No further details - short view

0948 1 Black foot still following ship.
Behavior Note: while gliding appeared bill wide as if to yaw - proceeded to wave - extended legs forward and elevated wings then settling on wave crest. Coaxed in 10 sec approx. Upon landing left wings in raised position for 15-20 sec and inserted bill downward in water as if to drink. (occurred several times) Then closed wings & floated. Hummer apparently not feeding!

1127 Red-tailed Tropicbird 1 SxSW 100' Running in front of rain squall

1346 Red-ft. Booby 1 W 30' SA Following ship

1348 Masked " 1 W 30' Ad - Collected

1520 Red-ft Booby 2 NE 10-60' 1st Juvenal Plumage

1552 BOATW ID. ADULT 1 SE 10-20' 1 Coming into 1st BASIC Plumage (i.e. Becoming Adult)
Moving low over water - within 200 yds. Running about 1.5 miles in front of Rain Squall.

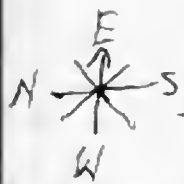
1618 Black-ft. Albatross 1 O Low Following ship - ~~Possibly same bird as previous today?~~

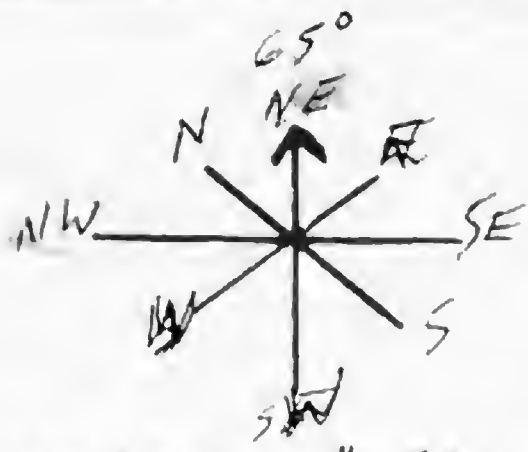
1740 Sooty TERN 12 S Low Quite distant off Bow VERY Dark Bird.

1745 Laysan Albatross 1 O off STERN

1825 - - - - - Sunset

1828 - - - - - Secured observations

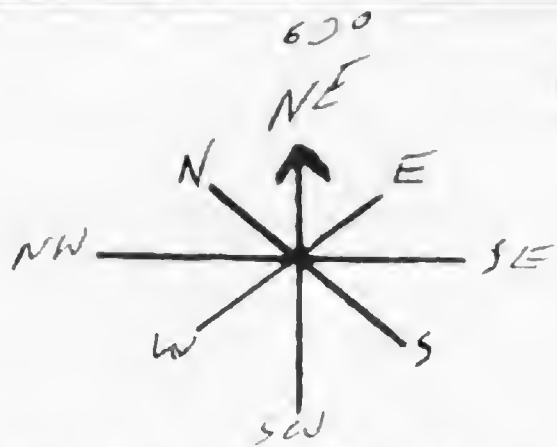




DATE 16 Feb. 1964
Pg. # 1

time species # dir. hgt. remarks loc.

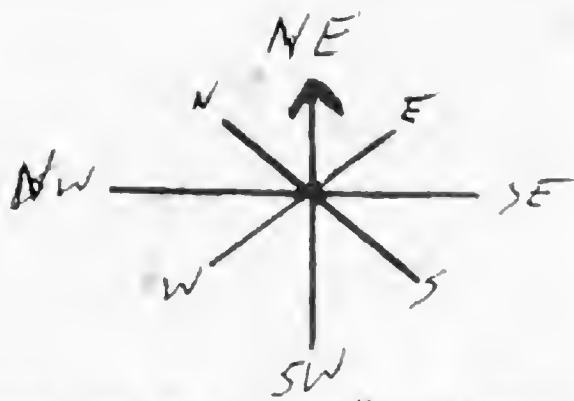
0621					obs. begin	
0635	Red-footed booby	1	NE	50	Imm. In 2nd Prebasic Plumage	
0635	Red-footed booby	1	NE	50	Imm. In 2nd Prebasic Plumage	
0642	White Tailed Tropicbird	1			Sunrise	
0731	Red-Tailed Tropicbird	1	☉	75'-200'	Circled Ship. The black wing marks NOT visible VERY white tail, small bird.	
0749	Red-Tailed Tropicbird	2	☉	200'	Feeding, Flying Fish under birds.	
1012	Red-Tailed Tropicbird	1	ENE	100' high	high over wake then low passing	
1156					heavy rain till 1103	
1243	Frigate bird	1	E	100-300	astern of ship flying toward ship	
1257	Frigate	1	SW	100 yd		
1257	Sooty TERN	1	NW	150 yd		
1258	FRIGATE	1	SW	100 yd	JOINED + Flew Together - Imm.	
1319	FRIGATE	1	NE	200 yd	Imm	
1440	Fairy tern	2		5-10	200 yds off starboard Feeding - no fly. fish obs.	
1550	FRIGATE	1	☉	5-40'	Feeding, Picked up a Squid(?) OFF THE WATER. HOVERED OVER LARGE OBJECT IN WATER MAYBE A BLACK FISH	
1552	SEA TURTLE	1	@ 12 ft		PASSED by ship.	
1700	Sooty TERN	34	NW	25-100 yd	- Came low to H ₂ O after observation	
1700	Booby spp.	1	NW	LOW	- Distant - 700 yd ±	
1705	Pterodroma	1	SW	"	-	
1701	Fairy Tern	1	SW	30 ft	600 to starboard	
1808	Red-footed Booby	1	NE	10-50'	first prebasic plumage (juvenile)	
1814	Masked Booby	1		on water	adult on piece of driftwood	
1814	Red-foot Booby	1	☉	5-20	Flying with 1808 juvenile - subadult	
1815					close obsv.	



DATE 17 FEBRUARY '64
Pg. # 1

time species # dir. hgt. remarks loc.

0612	—	—	—	—	open obs.	
1027	Red Tailed TB	1	NE	50-75ft	passed over ship + flew on ahead	
1034	Sooty Tern	4	SE	low	300 off bow	
1428	Tern sp	2	S	5-20	800 to starboard	
1511	Harcourt's Storm Petrel	1	NE		100 to port	
1530	Red-footed Booby	1	NW	low	400 off bow adult	
1540	Yellowtail?	10			evidently attracted by floating table-like orange object upto 3 ft. long with bright yellow tails - blue or green dorsal surface	
1545	Red-footed B.	1			may be 1530 bird adult	
1552	Tern sp	2	SE		long ways off 1 mi +	
1555	Sooty Tern	22	NW	25-100	800 ft port	
1556	Red-foot Booby	1	NE	low	between 2 tern flocks - probably same as 1545 adult	
1557	Sooty Tern	14	SE to NW	25-100	joining other 22 2 at 1552 may be from this flock	
1558	Masked Booby	1		on H ₂ O	sitting + dunking its bill in water - blasted by Heerman upon takeoff	
1609	Masked Booby	1	NE			
	SOOTY X TERN	3	SW	LOW		
1613	Sooty Tern	2	SE		-seen by WHITMAN NO LESS!	
1617	Harcourt's S.P.	1	SW			
1726	Red-FT. Booby	1	NE		ADULT. CAME IN OVER FAN TAIL.	
1753	—	—	—	—	Sunset.	
1805	—	—	—	—	close obsv.	



DATE 18 FEBRUARY 64
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0620					open obs. (HST) quite dark	
0654	→ Sooty TERN	1	SE	50'		
0715					actual sunrise	
0725	wh. te-tail tropic	1	NE	150'	pass over from stern	
0730	sooty tern	1	SE	2-5'	X bow	
0731	sooty tern	1	SE	2-5'	" "	
0736	sooty tern	1	SW	10-20	to port	
0737	" "	3			way off bow over 1000 yds	
0739	" "	1	SW	20'	Shot by Ludwig	
0755	" "	2	SW	10-20	off port 200-300 yds	
0758	" "	3	SSW	"	" " 100 yds	
0805	" "	8	S		Passed behind ship 400 yds	
0810	" "	1	SE	10'	Crossed Bow	
0815	" "	5	SSW	10'		
0829	" "	15	⊙	Low	Feeding flock	
0830	" "	1	SE	15'		
0837	Red-ft. Booby	1	NW	Low	SA	
0848	Sooty TERN	1	SW	15'		
0848	" "	1	SE	"		
0850	" "	1	SE	15-30'	63 groups of 2 each Spaced as Twos.	
0900	" "	1	SW	"		
0900	" "	1	SW	"		
0900	" "	2	SE	"	changed direction & flew with ship - crossed low & continued SE.	
0905	" "	2	SE	"		
0907	" "	6	SW		Passed astern of ship	
0907	" "	3	SW		off port 600 yds	
0920	" "	2	NE	Low	600 to port	
0920	" "	3	NE	Low	1200 to port	
0921	" "	1	SE	30'	100 across bow	
0935	" "	1	SE	15'		
0935	FAIRY TERN	1	SW	23'	500 astern	
0939	Sooty Tern	2	S	30'	400 to port	
1002	" "	2	SE	30-40	100+ off Bow	
1013	" "	1	SE	"	" " "	
1110					school of tuna? (at least 20) backs emerging periodically as they travel SW	
1122	Sooty tern	1	ESE	20-30	cross bow 100 yds	
1128	" "	2	NW	30-40	" " "	
1135	" "	1	NNW	5-10	" " "	
1142	" "	3	⊙		" " "	
1143	feeding flock	50+ 2				
1143	sooty terns	20		to 100	no flying fish seen	
1200	red-footed booby	1			flock seen at close range - no plastic tags noted	
					2 ft long fish jumped underneath flock	
1226	Sooty Tern	1	⊙	150ft	- soaring hawklike in small circles - did not flap once during time in view - only 150 yds from ship - wings held extended hawklike, so that ends of wings appeared far less pointed almost rounded	

2 700

9050



DATE 18 Feb 64
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
1235	Red-footed Booby	1	SW	low	100 to port full adult plumage	
1244	Sooty TERN	1	NW	10-15'		
1245					Large Ocean Vessel on Horizon 11:00 Port	
1253	Sooty TERN	2	SE		Seen astern	
1311	Fairy Tern	1	SE		500 off bow	
1355	Sooty Tern	1	NW		400 off bow	
1432	" "	1	SE	20-30'	150 yards off bow	
1434	" "	3	-	-	200 " "	
1436	Tropicbird	1	SE			
1437	sooty tern	1	SW			
1450	" "	1	NNW	5-10'	200 yds out	
1454	" "	1	SW	20-30'	100 yds to port	
1523	Ruddy Turnstone	1	NW X N	2-3'	heard and seen within 75 yards	
1624	Sooty TERN	5	NW	10-20'	off Bow	
1629	Sooty Tern	1	NW	50	200 to stern	
1659	Sooty Tern	3	NW	30	200 off bow	
1710	" "	20	CA	0-50'	Feeding flock - Many fish jumping - followed + circled	
1715	FAIRY Tern	1	-	20'	flock until 1738 - Many shots - None collected - Calling in flock as feeding. fish c. 6". NOT Flying Fish, Probably clupeids on periphery of flock	
1811	Sooty tern	2	W	10-20	flyind	
1832	Red-footed Booby	1	-	-	immature over ship collected	
1838	sunset	-	-	-	obsu. cease	



(NG)

DATE 19 FEBRUARY
Pg. # 1

time species # dir. hgt. remarks loc.

0645	-	-	-	-	-	open obs. in fair light. Land in sight	
0703	Pomarine Jaeger	1	SW	20	300 yds	} both in sight but not following us	
0705	"	1	NW	40	" "		
0708	"	1	W	50	over bow - a new bird		
0709	"	1	W	20'	another new one	none following	
0712	"	1	NNE	20'	new bird? Didn't seem to follow us.		
0729	"	1	Light phase	40'	Running parallel to ship, and following ship.		
0758	"	1	Light phase	0-20'	Circled ship. Left NNE.		
0743	"	2	"	0-10'	400 yds astern.		
0746	"	1	"	0-40'	Came up from astern passed over Fossil to S.E.		
0800	"	1			far off bow, probably new one.		
0803	"	2	Light phase		X bow		
0812	"	1	LOW	AS	off stem.		
0815	CEASE OBSERVATIONS - ship making turn						

FE BRUAKAY

Locality

740

DATE	MILES from OAHU		MILES from Johnston		SR	S/S	MILE STRAUCLED	
	1200	2400	1200	2400			SR - SS	
3	13 SW	140 WSW	727 ENE	600 ENE	0645 1045	1828	86	
4	230 WSW	317 WSW	510 ENE	423 ENE	0620	1745	77	
5	423 WSW	554 WSW	317 ENE	186 ENE	0627	1758	109	
6	656 WSW	740 WSW	84 ENE	17 SE	0640	1815	83	
7	785 WSW	886 WSW	13 SE	189 S	0645	1815	95	
8	982 WSW	979 WSW	273 SSW	259 SSW	0648	1830	106	OK 015
9	896 WSW	819 WSW	177 SSW	112 S	0649	1825	73	
10	826 WSW	968 WSW	97 SSW	237 SW	0645	1827	122	
11	981 WSW	777 WSW	237 SW	134 SW	0657	1828	98	
12	740 WSW	783 WSW	0	43 WSW	0649	1820	75	
13	848 WSW	980 WSW	108 W	237 WSW	0555	1845	154	
14	1806 WSW	979 WSW	261 WSW	187 W	0640	1840	99	
15	852 WSW	769 WSW	117 W	34 WNW	0635	1828	69	
16	579 WSW	454 WSW	161 ENE	286 ENE	0621	1815	132	
17	309 WSW	186 WSW	431 ENE	554 ENE	0628	1751	102	
18	65 WSW	—	675 ENE	—	0711	1817	77	

LF1

174

173

172

171

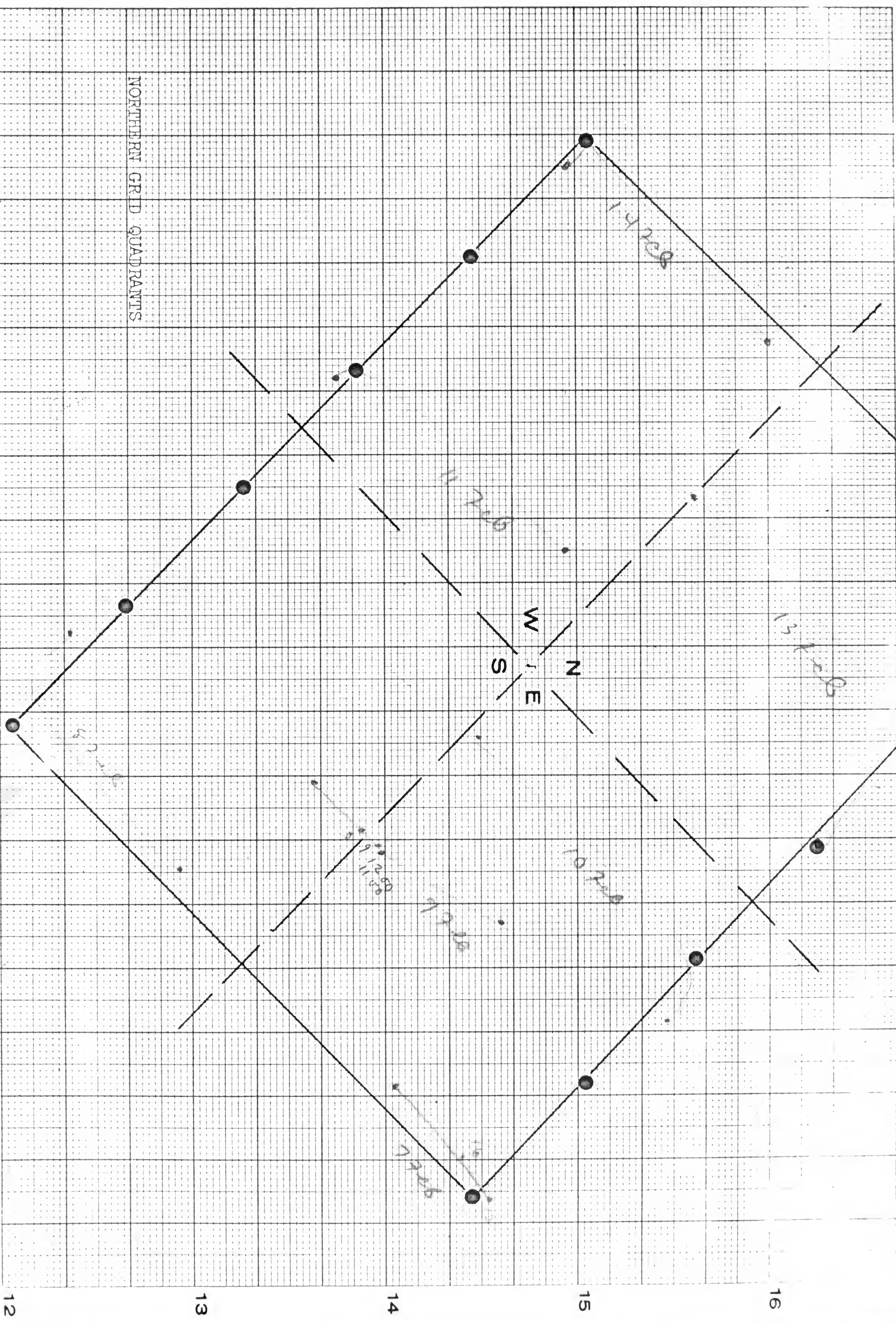
170

169

NORTHERN GRID QUADRANTS

N
E
S
W

BEE 20x20 TO INCH



DATE 3 Feb 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM°/o	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100															
0200															
0300															
0400															
0500															
0600															
0700															
0800															
0900															
1000															
1100			SET	10	30.73	77	68	87	5	Ø	120-05-2	77	11.7	247	247/10
1200	21-09.5N	158-16.2W	SET	10	30.10	77	68	87	5	Ø	120-06-02	77	4.5	130	247-10
1300	21-05.0	158-24.5	SET	10	30.05	78	69	86	5	Ø	120-08-02	77	3.0	010	247/10
1400	21-02.0	158-32.7	SET	10	30.04	79	70	86	5	Ø	120-09-02	79	3.1	131	247-10
1500	20-55.5	158-41.0	SET	10	30.03	78	71	86	5	Ø	120-07-02	79	4	035	247-8
1600	20-55.3	158-49.5	SET	10	30.04	76	70	86	5	Ø	120-07-02	79	7	Ø11	247-8
1700	20-50.5	158-57.5	SET	10	30.03	75	71	86	4	Ø	130-08-02	79	8	Ø14	247-8
1800	20-45.3	159-06.2	SET	10	30.05	75	71	86	4	Ø	110-08-02	78	7.7	001	247-9
1900	20-45.2	159-14.2	SET	10	30.10	74	70	86	4	Ø	140-11-02	78	9	Ø18	247-9
2000	20-39.9	159-22.5	SET	10	30.11	74	70	86	4	Ø	140-08-02	75.5	8.5	Ø24	247-8
2100	20-35.0N	159-32.5W	SET	8	30.10	74	73	86	5	Ø	140-06-02	78	6	Ø30	247/7
2200	20-20.0N	159-56.0W	SET	5	30.11	75	73	82	5	Ø	050-05-2	78	7	Ø30	247/7
2300	20-27.0N	160-04.5W	SET	8	30.10	75	73	82	4	Ø	050-18-3	78	14.8	Ø60.5	247/7
2400	20-27.5N	160-12.0W	SET	8	30.10	75	73	82	5	Ø	050-07-3	78	12.2	Ø55	247/8

REMARKS:

474 20-18.7N, 160-20.0 SET 8 30.07 75 71 82 5 7 050-07-3 78 15 050 247-9

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

100

DATE 4 Feb 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM°/o	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	20-16.5N	160-19.5W	ScT	8	30.09	75	69	82	5	0	050-09-03	79	15.7	077	247-8
0200	20-12.0N	160-28W	ScT	8	30.06	75	69	82	5	0	050-09-03	78	14.5	075	247-8
0300	20-08.2N	160-35.7W	ScT	8	30.06	75	69	82	5	0	050-09-03	78	15	077	247-8
0400	20-03.5N	160-44.0W	ScT	8	30.10	75	69	82	5	0	055-09-03	78	12	070	247-8
0500	19-52.0N	160-53.5W	ScT	8	30.07	75	69	82	5	0	060-09-03	78	13	052	247-8
0600	19-55.0N	161-02.7W	ScT	8	30.11	75	70	87	4	0	070-10-03	79	15	067	247-8
0700	19-52.0N	161-11.0W	ScT	10	30.11	78	76	75	4	0	055-09-03	79	13.6	067	247/8
0800	19-48.5N	161-19.8W	ScT	10	30.12	78	76	75	4	0	080-09-03	78	13.2	067	247/8
0900	19-46.5N	161-25.0W	ScT	10	30.13	78	76	79	4	0	085-10-04	78	10.2	062	247/8
1000	19-42.5N	161-31.5W	ScT	10	30.12	77	76	82	6	20	085-09-03	80	11	062	247/8
1100	19-41.0N	161-38.0W	ScT	10	30.12	78	76	79	7	30	065-11-03	80	11	058	247/8
1200	19-38.1N	161-44.0W	ScT	10	30.10	76	70	82	7	30	070-10-03	79	14.5	083	247-8.3
1300	19-36.0N	161-51.0W	ScT	10	30.07	80	72	74	7	0	070-10-03	79	7	064	247-8.2
1400	19-34.0N	161-57.5W	ScT	10	30.05	79	73	85	7	0	070-10-03	78	5.5	063	247-8.2
1500	19-30.5N	162-04.1W	ScT	10	30.04	79	73	83	7	0	070-10-03	78	11.3	056	247-8.7
1600	19-28.1N	162-10.7W	ScT	10	30.08	79	73	83	5	0	050-07-03	78	10	075	247-8
1700	19-25.2N	161-12.0W	ScT	10	30.08	77	73	87	5	0	050-07-03	78	10	069	247-8
1800	19-22.2N	162-25.0W	ScT	10	30.09	77	73	87	5	0	070-10-03	78	10	065	247-8
1900	19-20.0N	162-30.0W	ScT	10	30.09	77	73	87	5	0	070-10-03	78	10	067	247-8
2000	19-16.8N	162-37.1W	ScT	8	30.13	76	75	87	5	0	070-10-03	78	11.3	067	247-8
2100	19-12.0N	162-44.2W	ScT	8	30.13	76	75	87	5	0	070-10-03	78	11.7	067	247/9
2200	19-12.0N	162-52.2W	ScT	8	30.12	76	75	87	5	0	070-10-03	78	13.4	067	247/9
2300	19-08.0N	163-00.0W	ScT	8	30.11	75	74	91	5	0	070-10-03	78	14.3	029	247/9
2400	19-06.0N	163-08.5W	ScT	8	30.11	75	74	91	5	0	070-10-03	78	17	060	247-9

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

DATE 15 Feb 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM°/o	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	19-03.8N	163-16.0W	SCT	8	30.10	76	72	87	5	7	110-05-03	77	14	061	247-10
0200	19-01.0N	163-24.0W	SCT	8	30.09	76	72	87	5	7	110-05-03	78	15.5	074	247-10
0300	18-58.0N	163-32.2W	SCT	8	30.09	76	72	87	5	7	060-05-03	78	14	066	247-10
0400	18-54.5N	163-40.1W	SCT	8	30.08	75	71	87	5	7	060-07-03	78	13	066	247-10
0500	18-52.0N	163-48.0W	SCT	8	30.07	75	71	87	5	7	070-07-03	78	16	060	247-10
0600	18-49.2N	163-56.0W	SCT	8	30.11	75	71	87	6	7	070-05-03	78	17	060	247-10
0700	18-44.5N	164-03.5W	SCT	8	30.11	76	70	87	8	7	070-05-03	77	15.5	085	247-10
0800	18-41.5N	164-13.0W	SCT	10	30.11	76	76	95	7	7	070-10-03	78	11	085	247-9
0900	18-34.2N	164-11.0W	BKN	10	30.13	78	77	83	7	10	070-05-03	78	13.5	078	247-9
1000	18-28.0N	164-21.0W	BKN	10	30.13	78	77	75	7	7	100-13-03	79	16	082	247-9
1100	18-22.4N	164-30.5W	BKN	10	30.12	78.5	77	73	7	7	100-06-04	77	15.5	077	247-9
1200	18-16.8N	164-47.0W	BKN	10	30.10	79	72	78	7	7	105-05-03	79	14.7	071	247-9.5
1300	18-13.0N	164-58.5W	BKN	10	30.06	79	72	78	7	7	105-05-03	78	14.7	076.5	247-9.5
1400	18-09.2N	165-08.5W	BKN	10	30.05	79	72	75	7	7	105-05-03	79	15	081	247-9.5
1500	18-05.0N	165-18.0W	BKN	10	30.05	79	72	75	7	7	105-05-03	79	15.1	077	247-9.5
1600	18-02.0N	165-28.0W	BKN	10	30.07	79	72	78	7	7	103-05-04	79	16	077	247-9.5
1700	17-52.5N	165-37.5W	BKN	10	30.13	79	72	78	7	7	103-05-04	79	16	074	247-9.5
1800	17-53.2N	165-48.0W	BKN	10	30.03	79	72	78	7	7	103-05-04	79	16	074	247-9.5
1900	17-51.0N	165-52.5W	BKN	10	30.03	77	73	87	7	7	095-05-03	79	16	075	247-9.5
2000	17-42.0N	166-01.5W	BKN	10	30.06	77	76	87	7	7	100-07-04	79	16.3	094	247-9
2100	17-43.5N	166-09.7W	BKN	10	30.06	77	76	83	7	7	075-10-04	78	16.4	074	253-8
2200	17-43.0N	166-17.6W	BKN	10	30.07	76.5	75	82.5	6	7	075-08-04	79	14.5	072	253-8
2300	17-41.7N	166-26.2W	BKN	10	30.08	76	75	82	6	7	075-05-04	79	16.1	072	253-8
2400	17-39.0N	166-34.4W	BKN	10	30.07	76	75	82	6	7	075-05-04	79	14	070	253-8

REMARKS:

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WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

DATE

6 Feb 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM°/o	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	17-40.1N	166-42.5W	BKN	10	30.07	76	75	82	5	4	074-053	79	14.5	072	253-8
0200	17-39.1N	166-51.4W	BKN	10	30.01	76	72	81	5	4	071-062	80	14	074	253-8
0300	17-36.1N	166-59.1W	BKN	10	30.00	76	72	82	5	4	077-064	80	13	074	253-8
0400	17-33.5N	167-07.3W	BKN	10	30.02	76	72	81	5	4	072-063	80	12	074	253-8
0500	17-30.5N	167-15.5W	BKN	10	30.03	76	72	82	5	4	075-063	80	12	074	253-8
0600	17-28.5N	167-24.1W	BKN	10	30.03	76	72	87	5	4	081-063	80	12	077	253-8
0700	17-25.5N	167-32.1W	BKN	10	30.05	77	74	91	5	4	076-063	79	16	077	253-8
0800	17-23.0N	167-40.3W	BKN	10	30.07	78	77	87	7	10	087-08-03	79	16.5	072	253-8
0900	17-19.9N	167-49.1W	BKN	10	30.08	78	77	87	7	10	110-07-04	79	17.5	087	247-8
1000	17-16.2N	167-57.1W	BKN	10	30.07	79	78	87	7	5	100-07-04	79	16.8	089	247-8
1100	17-14.0N	168-03.1W	BKN	10	30.08	79	78	83	7	5	090-08-04	79	17.1	077	247-8
1200	17-10.8N	168-11.2W	CVC BKN	10	30.05	79	75	83	7	10	120-09-04	80	16.5	116	247-8
1300	17-07.0N	168-20.1W	CVC BKN	10	30.06	75	74	83	7	10	120-08-04	80	14.5	070	247-8
1400	17-03.1N	168-29.1W	BKN	10	29.98	82	75	92	7	4	110-05-02	80	13.5	101	247-8
1500	17-00.1N	168-37.1W	BKN	10	29.94	82	75	92	7	4	110-05-02	80	14.5	104	247-8
1600	16-56.1N	168-45.5W	BKN	10	29.98	82	75	92	7	4	105-06-02	80	16	100	247-8
1700	16-53.5N	168-51.1W	BKN	10	29.98	80	75	82	7	4	105-06-02	80	16	100	247-8
1800	16-51.1N	168-53.1W	BKN	10	30.00	80	73	79	7	4	110-05-03	80	12	090	247-8
1900	16-49.1N	168-56.1W	BKN	8	30.00	78	74	83	6	4	110-06-03	80	12	099	247-8
2000	16-47.2N	169-03.5W	SC	10	30.04	78	77	87	6	4	110-11-03	80	16	081	247-8
2100	16-45.1N	169-11.1W	SC	10	30.05	77	76	87	6	4	100-07-02	80	14.6	067	247-10
2200	16-43.5N	169-19.5W	SC	10	30.05	77.5	76	87	6	4	085-09-03	79	17.5	095	247-10
2300	16-37.1N	169-26.1W	SC	10	30.04	77	76	91	6	4	090-05-03	79	24.0	091	215-10
2400	16-28.1N	169-35.1W	SC	10	30.05	77	76	91	6	4	120-04-04	80	14.5	097	163-2.5

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

DATE 7 Feb 20

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM°/o	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	16-20N	169-22W	SCT	8	29.99	75	74	87	6	4	120-20	80	15	101	163-9.5
0200	16-12N	169-20W	SCT	8	29.99	78	74	87	6	4	120-20	80	15	101	163-9.5
0300	16-04N	169-18W	SCT	8	29.99	78	74	87	6	4	120-20	80	15	103	163-9.5
0400	15-56N	169-15W	SCT	8	29.99	78	74	87	6	4	120-20	80	15	103	163-9.5
0500	15-47N	169-12W	SCT	8	29.99	78	74	87	6	4	120-20	80	15	103	163-9.5
0600	15-38N	169-10W	SCT	8	29.99	78	74	87	6	4	120-20	80	15	103	163-9.5
0700	15-22N	169-09W	SCT	10	29.86	77	71	91	6	4	120-20	80	15	110	163-9.5
0800	15-22N	169-09W	SCT	10	30.06	77	70	71.5	2	2	095-06-05	79	16.7	070	163-9.5
0900	15-22N	169-09W	SCT	10	30.01	79	78	91	2	2	105-06-05	80	16	075	163-9.5
1000	15-08N	168-57W	SCT	10	30.02	79	77	79	2	2	100-05-05	83	19.5	074	163-10
1100	15-05N	168-54W	SCT	10	30.02	79	77	79	7	10	105-05-05	81	12	057	163-10
1200	14-57N	168-52W	SCT	10	30.02	79	77	79	1	10	105-05-05	80	11	055	163-9.5
1300	14-48N	168-49W	SCT	10	29.80	84	73	69	1	10	093-06-5	80	11	091	163-9.5
1400	14-37N	168-47W	SCT	10	29.99	82	74	69	1	10	093-06-5	80	11	086	163-9.5
1500	14-31N	168-47W	SCT	10	30.99	86	74	69	1	10	093-06-5	80	11	086	163-9.5
1600	14-27N	169-01W	SCT	10	29.95	80	73	79	5	4	015-0-3	80	16	069	225-8
1700	14-22N	169-02W	SCT	10	29.98	80	75	83	5	4	080-06-3	80	15	070	225-8
1800	14-18N	169-07W	SCT	10	27.77	78.5	72	83	6	05	095-06-04	80	14.4	070	225-9.5
1900	14-13N	169-04W	SCT	10	27.98	77	76	87	7	05	065-05-25	80	17.1	074	225-9.5
2000	14-08N	169-30W	SCT	10	27.85	77	76	87	7	05	057-05-25	80	16.8	063	225-9.5
2100	14-00N	169-36W	SCT	8	28.00	77	74	91	7	05	057-05-25	80	16.8	063	225-9.5
2200	13-53N	169-42W	SCT	8	28.00	77	74	91	7	05	057-05-25	80	16.6	063	225-9.5
2300	13-45N	169-48W	SCT	8	28.00	77	74	91	7	05	057-05-25	80	16.6	063	225-9.5
2400	13-38N	169-55W	SCT	8	30.00	77	74	91	7	05	057-05-25	80	19	056	225-9.5

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

DATE

8 Feb 21

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM°/o	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	13-31N	170-02W	BSN	8	30.00	77	74	96	6	0	010-10-1	80	16	070	220-9
0200	13-24N	170-02W	BSN	8	30.00	77	74	96	6	0	010-10-1	80	16	070	220-9
0300	13-16N	170-13.5W	BSN	8	29.96	77	74	96	6	0	010-10-1	80	16	070	220-9
0400	13-09N	170-20W	BSN	10	29.97	77	76	82.5	6	0	095-10-05	80	16.3	082	220-9
0500	13-04N	170-25W	BSN	10	29.97	77	76	82.5	6	0	095-05-05	80	16.3	082	220-9
0600	12-59N	170-28W	BSN	10	29.99	77	76	82.5	6	0	095-07-05	80	17.7	060	220-9
0700	12-55.2N	170-35.00	BSN	10	30.01	78	77	83	6	0	095-08-05	80	17.7	084	220-9
0800	12-55.2N	170-35.00	BSN	10	30.01	80	77	79	6	0	070-07-05	80.5	17	070	---
0900	12-44N	170-40W	BSN	10	30.03	80	74	83	6	0	086-5-4	80	17	080	220-9
1000	12-32.2N	170-46.5W	BSN	4	30.02	78	74	95	5	10	080-5-4	80	15.5	080	220-9
1100	12-33.0N	170-52.5W	BSN	10	30.06	79	75	87	8	0	080-5-4	80	13.5	081	220-9
1200	12-27.7N	170-52.5W	BSN	10	30.00	81	76	83	7	0	090-08-4	80	15	090	220-9
1300	12-20.5N	171-03.1W	BSN	8	29.91	79	76	91	10	0	080-08-4	80	17	080	220-9
1400	12-14.0N	171-09.6W	BSN	8	29.92	79	76	91	9	0	080-05-4	80	22	080	220-9
1500	12-07.0N	171-14.1W	BSN	10	29.92	81	76	83	9	0	0700-9	80	18	080	220-9
1600	12-02.0N	171-18.5W	BSN	10	29.90	79	78	87	7	0	060-07-05	80	17.4	080	312-9
1700	12-13.0N	171-24.0W	BSN	10	29.90	79	78	87	7	0	070-07-05	80	17.5	080	312-9
1800	12-18.1N	171-30.0W	BSN	10	29.91	79	78	87	7	0	070-07-05	80	17.7	075	312-9
1900	12-20.0N	171-36.0W	BSN	10	29.93	77	78	87	7	0	065-05-06	80	15.4	082	312-9
2000	12-30.8N	171-55.7W	BSN	10	29.94	79	78	87	7	0	070-05-7	80	23	107	312-9
2100	12-38.0N	171-58.3W	BSN	10	29.91	79	75	87	7	0	060-08	80	15.3	069	045-9
2200	12-44.5N	171-48.2W	BSN	10	29.98	79	75	87	7	0	060-08.3	80	11.7	069	045-9
2300	12-51.0N	171-41.2W	BSN	10	29.96	79	75	87	7	0	060-08.3	80	26	065	045-9
2400	12-58.1N	171-34.6W	BSN	10	29.98	79	75	87	7	0	100-08.3	80	22	100	045-9

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

Inches

DATE 9 Feb 84

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM°/o	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	13-04.1N	171-28.2W	BKN	8	29.97	79	75	87	7	0	095-3.5	80	25	095	045-9
0200	13-11.0N	171-21.1W	BKN	8	29.98	79	75	87	6	0	045-3.5	80	22	095	045-9
0300	13-17.1N	171-14.2W	BKN	8	29.88	77	74	91	6	0	010-4.5	80	25	070	045-9
0400	13-24.3N	171-07.1W	BKN	8	29.95	77	76	91	6	0	050-04-05	80	22	076	045-9
0500	13-30.3N	171-00.9W	BKN	8	29.46	77	76	87	6	0	050-04-07	80	25	079	045-9
0600	13-37.0N	170-53.0W	OK	10	29.97	76	75	87	9	0	020-06-07	80	25	073	045-9
0700	13-44.0N	170-46.0W	BKN	10	29.98	77	75	87	7	0	010-06-02	80	29.5	069	045-9
0800	13-47.2N	170-49.2W	BKN	10	29.93	77	75	87	7	0	070-06-06	99	27	050	045-9
0900	13-53.0N	170-43.0W	BKN	10	30.00	81	79	74	7	0	010-06-07	80	28	030	045-9
1000	13-58.0N	170-38.0W	BKN	10	30.00	82	78	72	8	0	020-06-07	80	25.5	067	045-9
1100	13-59.0N	170-36.0W	BKN	10	29.99	82	78	72	8	0	010-06-07	80	22	068	045-9
1200	13-59.2N	170-36.0W	SC	10	29.95	82	76	80	4	0	010-06-07	80	29.5	071	045-9.5
1300	14-06.1N	170-30.0W	SC	10	29.90	82	76	80	4	0	070-04-07	80	20.5	107	045-9
1400	14-11.2N	170-24.0W	BKN	10	29.95	82	76	80	8	0	070-04-09	80	20	071	045-9
1500	14-18.0N	170-21.0W	BKN	10	29.95	82	76	80	8	0	070-04-09	80	21	079	045-9
1600	14-24.0N	170-20.0W	BKN	10	29.89	80	78	79	7	0	010-08-08	80	25.5	062	045-9
1700	14-30.0N	170-14.0W	BKN	10	29.91	80	78	79	5	0	020-08-08	80	25	062	045-9
1800	14-39.0N	170-12.0W	BKN	10	29.92	79	78	83	5	0	070-07-08	80	22.5	062	045-9
1900	14-49.0N	170-11.0W	SC	10	29.93	78	77	87	7	0	070-07-09	80	30.5	062	045-9
2000	14-42.0N	170-02.6W	SC	10	29.94	78	77	87	7	0	070-07-09	80	26	086	063-8.5
2100	14-45.0N	170-01.5W	SC	8	29.98	77	77	87	7	0	070-07-09	80	22	080	063-8.5
2200	14-48.0N	169-55.0W	SC	8	29.97	77	77	85	7	0	070-07-09	80	18	074	063-8.5
2300	14-51.0N	169-49.0W	SC	8	29.97	76	75	85	7	0	070-07-09	80	24	074	063-8.5
2400	14-53.5N	169-43.0W	SC	7	29.98	76	75	85	7	0	070-07-09	80	24	074	063-8.5

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

Inches

DATE Monday 10 Feb-1964

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM°/o	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	14-56.2 N	169-37.2 W	BKN	8	29.95	77	75	95	7	0	025-8-6	80	28	083	000-05
0200	15-00.0 N	169-32.0 W	BKN	8	29.98	77	75	95	7	0	019-8-4	80	30	079	000-05
0300	15-02.0 N	169-25.1 W	BKN	8	29.99	77	73	87	7	0	011-7-4	80	17	098	305 (M) - 8.5
0400	15-09.2 N	169-29.0 W	SCT	8	29.96	77	76	91	5	0	060-08-05	80	15	084	305 (M) - 8.5
0500	15-17.5 N	169-24.6 W	SCT	10	29.92	77	76	91	2	0	055-08-05	80	15.2	103	315-9
0600	15-24.5 N	169-40.5 W	SCT	10	30.00	77	76	82.5	4	0	065-07-04	80	16	103	315-9
0700	15-31.0 N	169-42.0 W	SCT	10	30.01	77	76	87	6	02	075-08-05	80	12.9	098	315-7
0800	15-32.8 N	169-48.5 W	SCT	10	30.03	79	73	83	6	03	110-09-04	90	13.4	109	315-10
0900	15-41.2 N	169-57.7 W	SCT	10	30.08	79	73	83	7	03	098-09-07	80	13	098	225-13
1000	15-23.0 N	170-06.0 W	SCT	10	30.05	79	73	83	7	03	295-08-05	80	16.2	089	225-13
1100	15-25.0 N	170-15.0 W	SCT	10	30.05	79	73	83	7	03	275-08-05	80	15	082	225-13
1200	15-19.0 N	170-20.5 W	SCT	10	30.00	80	79	96	7	05	068-8-5	80	20	068	225-13
1300	15-11.1 N	170-29.0 W	SCT	10	30.00	80	79	96	7	02	065-6-5	80	20	068	225-13
1400	15-04.0 N	170-36.5 W	SCT	10	29.98	82	79	96	7	03	090-8-5	80	18	070	225-13
1500	14-56.0 N	170-44.6 W	SCT	10	29.91	84	81	92	4	03	090-8-5	80	14	074	225-13
1600	14-49.0 N	170-53.0 W	SCT	10	29.92	81	80	87.5	4	0	090-08-05	90	15.5	076	225-12.5
1700	14-40.0 N	171-00.2 W	SCT	10	29.94	79	77	75	5	0	095-07-07	80	15.6	072	225-12.5
1800	14-33.0 N	171-09.1 W	BKN	10	29.95	78	75	75	7	0	085-07-07	80	16	074	225-12.5
1900	14-21.0 N	171-16.2 W	BKN	10	29.96	77	75	78.5	7	0	085-07-07	80	16.3	074	225-12.5
2000	14-14.8 N	171-27.8 W	BKN	10	29.99	77	75	75	7	0	085-07-07	80	17.2	071	225-12.5
2100	14-06.2 N	171-37.1 W	BKN	10	29.94	77	75	74	7	0	075-07-04	80	21	058	225-13
2200	13-58.0 N	171-45.0 W	BKN	10	30.00	77	75	78	7	0	075-07-04	80	21	058	225-13
2300	13-49.5 N	171-53.0 W	BKN	10	30.00	77	76	78	7	0	075-07-04	80	21	058	225-13
2400	13-42.0 N	172-02.0 W	BKN	10	30.00	77	76	78	7	0	075-07-04	80	21	058	225-13

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

DATE 11 Feb 68

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM°/o	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	13-33.0 N	172-10.0 W	RISN	8	30.00	77	73	82	6	0	050-7-4	76	20	051	225-1
0200	13-25.0 N	172-19.0 W	RISN	8	29.98	77	73	82	6	0	050-7-4	76	20	051	225-1
0300	13-15.8 N	172-28.0 W	RISN	8	29.98	77	73	82	6	0	050-7-4	76	22	051	225-1
0400	13-23.5 N	172-36.0 W	OVC	8	29.92	75	74	80	9	0	050-7-4	80	22.5	077	215-2
0500	13-32.0 N	172-45.0 W	OVC	10	29.75	77	76	80	7	0	70-11-1	80	25	053	210-1
0600	13-40.0 N	172-53.1 W	BKN	10	29.95	76	75	81	7	0	375-11-1	80	25.5	083	210-1
0700	13-45.5 N	173-02.0 W	BKN	10	29.96	76	75	81	7	0	040-10-6	80	25.5	085	210-12
0800	13-49.0 N	173-07.8 W	BKN	10	29.97	79	72	81	7	0	050-10-3	80	20	058	210
0900	13-57.0 N	173-01.7 W	BKN	10	29.99	81	73	76	7	0	050-10-1	80	27	045	045-11
1000	14-08.5 N	172-54.5 W	BKN	10	29.94	81	73	76	7	0	070-04-1	80	24	050	045-11
1100	14-10.1 N	172-42.0 W	BKN	10	29.94	80	73	79	7	0	070-04-1	80	30	052	045-11
1200	14-18.0 N	172-41.5 W	ST	10	29.99	82	72	80	3	0	070-04-7	80	40	061	045-10
1300	14-25.1 N	172-35.1 W	ST	10	29.98	82	72	80	6	0	070-04-7	80	41	063	045-10
1400	14-22.5 N	172-29.5 W	RISN	10	29.91	82	72	80	9	0	070-04-7	80	37	061	045-10
1500	14-39.5 N	172-22.8 W	ST	10	29.92	79	77	82	5	0	080-04-1	80	18.5	087	045-10
1600	14-47.0 N	172-18.0 W	ST	10	29.93	79	77	75	7	10	080-04-1	80	20.5	066	045-10
1700	14-53.5 N	172-12.0 W	BKN	10	29.95	78	76	79	8	05	080-04-1	80	16.2	070	045-10
1800	14-54.8 N	172-08.3 W	BKN	10	29.95	78	76	79	8	0	080-04-1	80	18.9	069	045-10
1900	15-03.3 N	172-06.2 W	BKN	10	29.95	78	76	79	8	0	070-11-1	80	20	060	050-11.5
2000	15-05.8 N	172-02.5 W	BKN	10	29.96	78	76	79	8	0	070-11-1	80	20	060	050-11.5
2100	15-12.2 N	171-58.0 W	BKN	10	29.96	78	76	79	8	0	070-11-1	80	25	060	050-11.5
2200	15-19.0 N	171-45.0 W	RISN	8	30.02	78	76	79	8	0	070-07-5	80	28	060	050-13
2300	15-25.9 N	171-37.1 W	RISN	8	30.02	78	76	79	8	0	065-07-5	80	19	050	050-13
2400	15-32.0 N	171-29.0 W	RISN	8	30.02	78	76	79	8	0	065-07-5	80	19	050	050-13

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

DATE 12 Feb 64

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM°/o	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	15-39.0N	171-21.0W	BKN	8	30.02	75	70	75	8	0	064-07-5	80	19	056	050-13
0200	15-46.0N	171-13.0W	BKN	8	29.99	78	70	75	8	0	070-07-5	80	19.9	061	050-13
0300	15-52.0N	171-05.4W	BKN	8	29.99	78	70	75	8	0	070-07-5	80	21	058	050-13
0400	15-59.0N	170-57.0W	OVC	8	29.98	75	73	82	9	0	070-07-5	80	15.5	060	050-13
0500	16-05.2N	170-49.5W	OVC	8	29.97	75	73	82	9	0	070-07-5	80	10.5	075	050-13
0600	16-11.2N	170-41.0W	OVC	10	30.01	76	74	82	9	0	080-06-0	80	20.5	068	050-13
0700	16-17.8N	170-31.0W	OVC	10	30.03	76	74	78	8	0.9	080-06-0	80	14.1	085	050-13
0800	16-22.8N	170-18.2W	OVC	10	30.03	76	74	78	8	0.9	080-06-0	80	25	085	050-13
0900	16-27.0N	170-05.0W	OVC	10	30.05	79	70	75	8	0	080-06-0	80	23	087	050-13
1000	16-32.0N	169-52.5W	OVC	10	30.06	79	70	75	8	0	080-06-0	80	26	087	050-13
1100	16-36.7N	169-39.5W	OVC	10	30.07	81	78	76	8	0	080-06-0	80	23	084	050-13
1200															
1300							IN	J O H N S T O N			1 S C A N D				
1400															
1500															
1600	16-41.0N	169-29.0W	OVC	10	29.97	87	84	70.1	6	0	095-04.0	80	18.7	134	180-8
1700	16-29.0N	169-34.5W	OVC	10	29.98	80	78	73	6	0	102-04-0	80	15.5	067	220-6
1800	16-32.0N	169-40.0W	OVC	10	30.00	77	75	78.5	6	0.7	080-06-0	80	14.1	060	200-6
1900	16-34.0N	169-46.0W	OVC	10	30.01	77	75	75.5	6	0	080-06-0	80	17.5	070	200-6
2000	16-23.5N	169-51.0W	OVC	10	30.01	79	75	76	6	0	070-06-0	80	12	067	250-8
2100	16-29.0N	169-55.0W	OVC	10	30.05	77	75	77	9	0.4	100-01-0	80	16.9	062	237-7
2200	16-25.0N	170-00.0W	OVC	10	30.08	77	71	75	9	0	100-07-0	80	16.7	071	237-7
2300	16-21.5N	170-09.5W	OVC	10	30.09	75	70	91	3	0.9	100-07-0	80	16	071	237-7
2400	16-18.0N	170-09.0W	OVC	10	30.09	77	70	78	3	0	080-06-0	80	16	078	237-7

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

DATE

13 May 1964

TIME	LAT	LONG	PRES	WEA	VIS	SLP	DRY B	DEW PT	HUM°/o	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	16-12.0N	170-13.0W	BRN		8	30.04	77	70	78	7	0	010-06-03	79	13.4	081	233-7
0200	16-09.0N	170-12.5W	BRN		8	30.07	77	70	78	7	0	010-06-03	79	13.4	081	233-7
0300	16-05.0N	170-22.0W	BRN		8	30.07	77	70	78	7	0	010-06-03	79	13.4	081	233-7
0400	16-06.0N	170-27.0W	BRN		10	30.02	77	76	82.5	5	0	010-06-03	79	13.4	081	233-7
0500	16-10.0N	170-32.0W	BRN		10	30.02	77	76	82	5	0	010-06-03	80	13.5	081	233-7
0600	16-15.0N	170-38.0W	BRN		10	30.02	77	76	82	5	0	010-06-03	80	14.5	081	233-7
0700	16-18.0N	170-42.0W	BRN		10	30.05	77	76	82	6	0	010-06-03	80	16.4	092	233-7
0800	16-25.0N	170-43.0W	BRN		10	30.05	78	77	83	6	0	010-06-03	80	13.6	070	233-7
0900	16-34.0N	170-53.0W	BRN		10	30.07	79	77	79	6	0	072-07-05	80	16.5	081	233-12
1000	16-42.3N	171-01.0W	BRN		10	30.05	79	77	79	6	0	072-07-05	80	16.5	081	233-12
1100	16-50.0N	171-10.0W	BRN		10	30.06	79	77	79	6	0	072-07-05	80	18	081	233-12
1200	16-36.0N	171-29.0W	BRN		10	30.03	81	73	75	6	0	071-07-04	80	19	080	233-12
1300	16-28.0N	171-34.1W	BRN		10	30.03	81	73	75	6	0	071-07-04	80	17	070	233-12
1400	16-17.8N	171-44.0W	BRN		10	30.04	81	73	75	6	0	081-07-04	80	15.2	072	233-12
1500	16-08.0N	171-56.0W	BRN		10	29.97	85	74	69	6	0	081-07-04	80	17	072	233-12
1600	16-08.5N	172-03.0W	BRN		10	29.97	80	78	77	6	0	100-07-05	80	14.7	079	233-12
1700	15-47.0N	172-14.0W	BRN		10	29.96	80	78	77	6	0	100-07-05	80	15	081	233-12
1800	15-40.0N	172-23.5W	BRN		10	29.97	80	78	79	5	0	100-07-05	80	15.5	070	233-12
1900	15-37.0N	172-27.0W	BRN		10	29.97	80	78	79	5	0	100-07-05	80	17.5	081	233-12
2000	15-34.0N	172-32.0W	BRN		10	29.97	80	78	79	5	0	100-07-05	80	17	081	233-12
2100	15-23.0N	172-41.5W	BRN		10	29.97	80	78	79	5	0	081-07-04	80	17.9	081	233-12
2200	15-17.0N	172-50.0W	BRN		10	29.99	79	72	79	5	0	081-07-04	79	17.5	081	233-12
2300	15-08.5N	172-58.0W	BRN		10	30.01	78	72	83	5	0	081-07-04	79	17	081	233-12
2400	15-00.0N	173-08.0W	BRN		10	30.07	77	76	82.5	5	0	055-07-03	80	20.4	071	233-12

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

DATE 14 FEB 64

TIME	LAT <i>N</i>	LONG <i>W</i>	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	14-51.5N	173-16.5W	ScT	10	30.05	78	76	79	5	0	065-04-03	80	19	062	315-12
0200	14-42.0N	173-26.0	ScT	10	30.02	78	76	79	5	0	065-04-03	80	21.5	072	315-12
0300	14-34.0N	173-34.5	ScT	10	30.01	78	76	79	5	0	065-04-03	80	20.7	072	235-12
0400	14-29.0N	173-44.0	ScT	10	30.00	78	76	79	5	0	065-04-03	80	21	072	315-12
0500	14-38.1N	173-52.0	ScT	10	30.00	78	76	79	6	0	060-04-03	80	23.5	076	315-12
0600	14-47.0N	174-02.0	ScT	10	30.00	78	76	79	5	0	060-04-03	80	23.5	076	315-12
0700	14-52.0N	174-10.0	ScT	10	30.00	78	76	79	7	0	055-04-03	80	23.5	075	315-12
0800	15-06.0N	174-13.0	ScT	10	30.02	78	69	75	3	0	045-07-4	79	18.9	079	315-12
0900	15-13.5N	174-05.0	ScT	10	30.02	78	69	75	7	0	041-07-4	79	29	057	315-12
1000	15-19.0N	173-58.0	ScT	10	30.02	81	72	75	5	0	042-07-4	79	35	072	315-12
1100	15-24.0N	173-53.0	ScT	10	30.02	81	72	75	7	0	042-07-4	79	42	072	315-12
1200	15-29.0N	173-50.0	ScT	10	30.01	81	73	63.5	7	0	042-07-4	79	42.5	080	315-12
1300	15-31.0N	173-45.1	ScT	10	30.00	82	80	72	7	0	071-06-0	80	42.5	080	315-12
1400	15-35.0N	173-40.0	ScT	10	29.91	86	83	63	7	0	071-06-0	80	42	075	315-12
1500	15-41.0N	173-35.0	ScT	10	29.92	81	77	79.5	7	0	071-06-0	80	45	075	315-12
1600	15-46.0N	173-30.0	ScT	10	29.96	81	75	79	7	0	070-05-05	80	45	072	315-12
1700	15-51.0N	173-27.0	ScT	10	29.96	80	73	79	7	0	070-05-05	80	23	066	315-12
1800	15-57.0N	173-20.0	ScT	10	29.93	79	72	79	7	0	075-05-05	80	20	065	315-12
1900	15-09.0N	173-15.0	ScT	10	29.99	74	72	70	7	0	074-05-05	80	20	066	315-12
2000	16-13.0N	173-19.0	ScT	10	30.03	77	72	82	7	0	055-05-4	80	25	068	315-12
2100	16-18.0N	173-01.0	ScT	10	30.04	77	72	82	7	0	055-05-4	80	20	065	315-12
2200	16-23.0N	172-56.0	ScT	10	29.98	77	72	82	7	0	055-05-4	80	22	065	315-12
2300	16-28.0N	172-49.0	ScT	10	29.98	77	73	79	7	0	055-05-4	80	30	060	315-12
2400	16-33.5N	172-44.0	ScT	10	30.07	77	76	84.5	7	0	055-05-4	80	29	079	315-12

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

DATE

SAT. 15-FEB-64

TIME	LAT N	LONG W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM°/o	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	16-48.0	172-38	3.5	10	30.07	77	76	82.5	5	4	090-05	80	20.5	091	090-8.5
0200	16-43.0	172-32	3.5	10	30.07	77	76	82.5	5	4	090-05	80	21.7	089	090-8.5
0300	16-48.5	172-27	3.5	10	30.07	77	76	82.5	5	4	090-05	80	21.1	089	090-8.5
0400	16-54.0	172-20.5	3.5	10	30.07	77	76	82.5	5	4	090-05	80	21.1	089	090-8.5
0500	16-54.0	172-13.8	3.5	10	30.07	77	76	82.5	6	4	090-05	80	24	085	090-9.5
0600	"	172-06.0	3.5	10	30.07	77	76	82.5	7	4	090-05	79	24	086	090-8.5
0700	"	172-02.0	BKN	10	30.07	77	76	82.5	8	4	090-05	79	24	086	090-8.5
0800	"	171-58.1	BKN	10	30.07	77	76	82.5	8	4	090-05	79	13.7	089	-0
0900	"	171-51.0	BKN	10	30.07	77	76	82.5	8	4	090-05	79	22	088	090-8.5
1000	"	171-44.0	BKN	10	30.07	80	72	74	7	4	090-05	79	12.5	088	090-8.5
1100	"	171-36.5	BKN	10	30.07	80	72	74	7	4	090-05	79	19	085	090-8.5
1200	"	171-29.0	BKN	10	30.07	82	80	72	7	4	090-05	80	22.8	085	090-8.5
1300	"	171-28.0	BKN	10	30.07	82	80	72	7	4	090-05	80	15.1	085	090-8.5
1400	"	171-23.0	BKN	10	30.07	82	80	72	6	4	090-05	80	14.8	085	090-8.5
1500	"	171-16.2	BKN	10	30.07	82	80	67	6	4	090-05	80	12.2	085	090-8.5
1600	"	171-10.2	BKN	10	30.07	83	80	65	6	4	090-05	80	19	084	090-8.5
1700	"	171-04.5	BKN	10	30.07	83	80	69	5	4	090-05	79	14	085	090-8.5
1800	"	170-52.0	BKN	10	30.07	83	80	69	6	4	090-05	79	12	085	090-8.5
1900	"	170-50.0	BKN	10	30.07	79	72	79	5	4	090-05	79	27	085	090-8.5
2000	"	170-45.0	BKN	8	30.07	77	71	82	5	4	090-05	79	13	085	090-11
2100	"	170-38.1	BKN	8	30.07	77	71	82	5	4	090-05	79	13	085	090-11
2200	"	170-25.2	BKN	8	30.07	77	71	82	5	4	090-05	79	17	085	090-11
2300	"	170-15.1	BKN	8	29.97	77	71	82	5	4	090-05	79	19	085	090-11
2400	"	170-05.1	BKN	10	30.07	77	75	78.5	5	4	090-05	79	19.7	085	090-11

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

DATE

16 January 1964

15 13

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM°/o	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	16-54.2	169-55.3	Bknl	10	30.07	77	75	78.5	6	0	080-06-06	80	23.4	070	080-11
0200	16-58.0	169-43.0	ScT	10	30.01	77	75	74.5	5	0	080-06-06	80	22	079	067-11
0300	17-2.5	169-31.0	ScT	10	30.00	77	75	74.5	5	0	080-06-06	80	23	079	067-11
0400	17-8.3	169-19.0	ScT	10	30.02	77	75	74	5	0	080-06-06	79	20	079	067-11
0500	17-14.0	169-03.1	ScT	10	30.03	77	75	73	5	0	080-06-06	79	20	079	067-11
0600	17-19.2	168-56.2	ScT	10	30.02	77	75	74	5	0	080-06-06	79	16	079	067-11
0700	17-22.0	168-44	ScT	10	30.04	77	70	74	5	0	080-06-06	75	17	079	067-11
0800	17-23.0	168-32	ScT	10	30.05	79	70	75	7	0	080-06-06	79	11	069	-0
0900	17-29.0	168-22.5	ScT	10	30.10	79	70	75	7	0	080-06-06	79	15	065	067-11
1000	17-29.2	168-12.5	ScT	10	30.12	82	72	72	7	0	080-06-06	79	13	065	067-11
1100	17-37.5	168-06.5	ScT	10	30.13	82	72	72	7	0	080-06-06	79	7	065	067-11
1200	17-38.5	167-58.5	Ovc	10	30.07	75	73	82	7	0	107-06-01	80	17	095	069-11
1300	17-45.5	167-43.5	Ovc	10	30.06	80	78	72	7	0	107-06-01	80	14.1	095	069-11
1400	17-50.0	167-30.5	ScT	10	30.05	81	77	72	5	0	107-06-01	80	18.2	070	069-11
1500	17-54.0	167-21.5	ScT	10	30.03	81	79	72	5	0	107-06-01	80	16.7	070	069-11
1600	17-58.0	167-10.5	ScT	10	30.03	81	79	72	5	0	107-07-04	80	15	070	069-11
1700	18-02.0	167-00	ScT	10	30.04	81	79	72	5	0	108-07-04	80	16	070	069-11
1800	18-06.0	166-40.8	ScT	10	30.05	79	72	77	5	0	108-07-04	79	13	070	069-11
1900	18-12.0	166-29.0	ScT	10	30.06	79	72	75	5	0	089-07-04	75	11	070	069-11
2000	18-17.0	166-32.5	ScT	10	30.10	77	70	78	5	0	089-05-4	79	13	070	069-11
2100	18-22.0	166-29.0	ScT	8	30.10	77	70	78	5	0	089-05-4	79	16	070	069-11
2200	18-25.0	166-21.0	ScT	8	30.12	77	70	78	5	0	089-05-4	79	16	070	069-11
2300	18-30.0	166-10.0	ScT	8	30.13	77	70	78	5	0	089-05-4	79	12	073	069-11
2400	18-32.0	166-06.0	ScT	10	30.10	75	73	78	7	0	089-05-4	80	11.9	070	069-11

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

DATE 11-17-54

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM°/o	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	18-26	165-51	SC	10	30.08	75	73	78	5	0	080-04-4	80	12.2	070	069-11
0200	48	41	SC	10	30.05	75	73	76	5	0	080-04-4	80	13.1	070	069-11
0300	48	31	SC	10	30.03	75	73	75	5	0	080-04-4	80	10.5	070	069-11
0400	48	21	SC	10	30.04	75	73	74	5	0	080-04-4	80	10	070	069-11
0500	52	11	SC	10	30.05	75	73	74	5	0	080-04-4	79	9	070	069-11
0600	58	01	SC	10	30.06	75	73	75	6	0	085-03-5	80	10	090	069-11
0700	19-02	164-51	SC	10	30.01	75	73	75	6	0	085-03-5	80	9	090	069-11
0800	19-15	164-42	SC	10	30.11	77	70	78	4	0	085-03-3	80	9	087	069-11
0900	19-28	164-37	SC	10	30.11	77	72	78	4	0	085-03-3	80	9	087	069-11
1000	19-42	164-25	SC	10	30.12	80	69	75	6	0	085-03-4	80	7	082	069-11
1100	19-55	164-16	SC	10	30.12	80	69	75	6	0	085-03-4	80	11	082	069-11
1200	19-18	164-06	SC	10	30.15	79	70	71.5	8	0	103-05-4	80	12.3	090	069-11
1300	19-22	163-57	SC	10	30.17	77	75	74.5	7	0	103-05-4	80	11	102	069-11
1400	19-38	163-45	SC	10	30.03	80	78	72	7	0	103-05-4	80	4.5	109	069-11
1500	19-59	163-37	SC	10	30.02	80	78	72	7	0	103-05-4	80	2.5	090	069-11
1600	19-52	163-29	SC	10	30.02	80	78	72	6	0	100-04-03	80	3.2	125	069-12
1700	19-32	163-21	SC	10	30.03	75	68	78	5	0	100-04-02	80	12	010	069-12
1800	19-22	163-10	SC	10	30.03	75	68	79	5	0	115-04-2	80	11.5	119	069-12
1900	19-40	162-06	SC	8	30.06	75	68	75	5	0	115-05-3	80	11	094	069-12
2000	43	162-56	SC	8	30.06	75	68	75	5	0	115-05-3	80	12	094	069-12
2100	46	162-46	SC	8	30.06	75	68	75	4	0	115-05-3	80	12	094	069-12
2200	49	162-36	SC	8	30.06	75	68	75	4	0	115-05-3	80	12	094	069-12
2300	51	162-26	SC	8	30.07	75	68	75	4	0	115-05-3	79	7	090	069-12
2400	54	162-16	SC	8	30.07	75	73	75	4	0	115-05-3	80	10.2	090	069-12

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES; WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

DATE

18 Feb 64

TIME	LAT	LONG	PRES	WEA	VIS	SLP	DRY B	DEW PT	HUM°/o	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	19-58	162-05														
0200	20-01	161-54	30.5		10	30.06	74	72	78	4	0	100-04-01	80	10.5	113	060-11
0300	20-04	161-43	30.5		10	30.05	74	72	78	4	0	100-04-01	80	3.7	070	060-11
0400	20-07	161-33	30.5		10	30.06	74	72	78	4	0	100-04-01	80	5	073	060-11
0500	20-10	161-23	30.5		10	30.05	74	72	78	4	0	100-04-01	80	5.8	076	060-11
0600	20-13	161-13	30.5		10	30.05	74	72	78	4	0	100-04-01	80	5	076	060-11
0700	20-16	160-59	30.5		10	30.10	74	72	78	6	0	100-04-01	80	9	083	060-11
0800	20-18	160-54	30.5		10	30.11	74	72	78	2	0	090-04-02	80	9	085	074-7
0900	20-21	160-40	30.5		10	30.12	76	67	77	3	0	090-04-02	80	7	080	074-7
1000	20-24	160-26	30.5		10	30.13	76	67	77	3	0	090-04-02	80	4	070	074-7
1100	20-27	160-13	30.5		10	30.12	82	67	62	6	0	074-04-7	80	4	070	074-7
1200	20-30	160-03	30.5		10	30.09	82	79	62	6	0	074-04-7	80	6.5	070	074-7
1300	20-33	159-55	30.5		10	30.07	89	76	67.5	6	0	074-04-7	80	8.2	093	074-7
1400	20-36	159-48	30.5		10	30.06	89	76	67.5	6	0	074-04-7	80	8.2	070	074-7
1500	20-39	159-39	30.5		10	30.05	77	75	68.5	6	0	074-04-7	77	8.5	070	074-7
1600	20-42	159-33	30.5		10	30.04	81	70	68	7	0	100-04-02	75	3.5	087	072-6
1700	20-45	159-26	30.5		10	30.04	81	70	68	7	0	100-04-02	75	3.5	087	072-6
1800	20-48	159-19	30.5		10	30.04	81	70	68	7	0	100-04-02	75	9.3	092	072-6
1900	20-51	159-13	30.5		10	30.04	79	67	67	7	0	080-04-02	86	9	093	072-6
2000	20-54	159-06	30.5		8	30.04	79	67	67	6	0	080-04-02	80	5	093	072-6
2100	20-57	159-00	30.5		8	30.10	73	67	82	6	0	080-04-02	79	7	090	072-6
2200	21-00	158-53	30.5		8	30.11	73	67	82	6	0	080-04-02	79	7	090	072-6
2300	21-03	158-46	30.5		8	30.11	73	67	82	6	0	080-04-02	79	14	090	072-6
2400	21-06	158-42	30.5		10	30.14	74	72	74	5	0	080-04-02	79	12.1	096	072-6

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

DATE 19 FEB 64

TIME	LAT	LONG	PRES	WEA	VIS	SLP	DRY B	DEW PT	HUM°/o	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100		158-38	5.5		10	30.12	78	72	74	5	0	095-04-04	74	13.5	276	071-8
0200		158-36	5.5		10	30.10	75	71	73.5	5	0	095-04-04	74	13.7	086	075-8
0300		158-32	5.5		10	30.08	73	71	73.5	5	0	095-04-04	74	9.5	102	110-8
0400		158-26	5.5		10	30.04	73	71	73	5	0	095-04-04	74	10	108	120-8
0500		158-20	5.5		10	30.09	73	71	73	5	0	095-04-04	74	15	102	120-8
0600		158-14	5.5		10	30.09	73	71	73	5	0	095-04-04	74	10.2	054	07-8
0700		158-08	5.5		10	30.10	73	71	73.5	5	0	095-04-04	74	16.5	061	07-8
0800	21 19	158-00	5.5		10	30.10	74	73	86	5	0	095-04-04	74	8	061	38-8
0900																
1000																
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REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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THIS LOG REPLACES BATHYTHERMOGRAPH RADIO LOG PRNC-NHO 3167/35 AND OCEANOGRAPHIC LOG SHEET B PRNC-NHO 3167/2 (rev 10-58)

* (SEE INSTRUCTIONS ON COVER)

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